CAUTION—IF YOU HAVE YOUR JOURNALS BOUND, note that the following 1989 author/subject index contains a substantial number of items referenced to the "A-" pages which always precede the serially numbered main scientific content of each issue, and which succeed the scientific pages. These references cite information of value which, by format, does not lend itself to inclusion in the main portion of the issue.

When binding a year's collection of JOURNALS, it is common practice to strip off and discard the "A-" portions of each copy. HOWEVER, BEFORE DISCARDING 1989 "A-" PAGES—CHECK THEIR CONTENT, either by scanning the index and retaining cited pages, or reviewing each issue and retaining those "A-" pages which may be of future value. Copies of any "A-" pages previously discarded and now needed can be obtained from University Microfilms, Intl. Complete address and telephone number information is listed on the table of contents page of this or any issue of the JOURNAL.

1989 Authors Index

A	
ACKERMANS, Harry: A Device for Solvent Desorption of Volatile Organic Compounds from Activated Charcoal	1-94
ACKLEY, Mark W.: A Testing Protocol for Organic Vapor Respirator Canisters and Cartridges	
AKIYAMA, Takashi: Thermal Desorption Efficiencies of Two-Component Organic Solvents from Activated Carbon	24
ALEXEEFF, George V.: Problems Associated with the Use of Immediately Dangerous to Life and Health (IDLH) Values for Estimating the Hazard of Accidental Chemical Releases	509
AMES, Richard G.: Health Symptoms and Occupational Exposure to Flea Control Products among California Pet Handlers	
ANAND, N.K.: Particle Deposition in Aerosol Sampling Lines Caused by Turbulent Diffusion and Gravitational Settling	
ANASTAS, Mazen Y.: Finite Difference Methods for Computation of Flow into Local Exhaust Hoods	
ANDERSEN, G.H.: An Approach to Occupational Health Risk Management for a Diversified International Corporation	
ARAI, Douglas K.: Biological Monitoring of Toxic Metals in Urine by Simultaneous Inductively Coupled Plasma-Atomic Emission Spectrometry	
ARMSTRONG, Thomas J.: Subjective Worker Assessments of Hand Tools Used in Automobile Assembly	
APNOLD James E. Investigation of Charcoal Cloth as a Sorbent for Integrated Sampling of Solvent Vanors in Mixed Expired Breath	
Using a New Stainless Steel Sampler	112
ASSENNATO, G.: Medical Monitoring of Dioxin Clean-Up Workers	
AUDUNSSON, G.: The Efficiency of Air Pollutant Sampling by Midget Impingers with Amines as Model Compounds	535
AUSTRIA, Rodrigo J.: Occupational Exposure and Analysis of Microcrystalline Cristobalite in Mullite Operations	460
_	
В	
BABB, T.: Physical Performance during Combinations of Hypercapnic, Resistive, and Hot Air Breathing	105
BASTON, V.F.: Particle Penetration through Sampling Prefilters Illustrates the Analysis Error in NIOSH-Type Procedures for Nickel Carbonyl	-665
BERGLUND, L.G.: Effect of Thermal Conditions on the Acceptability of Respiratory Protective Devices on Humans at Rest	
BETZ. William R.: Characterization of Carbon Molecular Sieves and Activated Charcoal for Use in Airborne Contaminant Sampling	
BIDSTRUP, P. Lesley: Perspective on Safety: Personal Opinions	
BIGU, J.: Reduction of Airborne Radioactive Dust by Means of a Charged Water Spray	
BILAN, R.A.: Assessment of Isocyanate Exposure during the Spray Application of Polyurethane Foam	
BOLEIJ, Jan S.M.: Enumeration of Viable Fungi in Occupational Environments: A Comparison of Samplers and Media	
BOMAN, Anders S.: Permeation of Neoprene Protective Gloves by Acetone: Comparison of Three Different Permeation Celts in an Open-Loop System	
BOUDREAU, J.: The Response of the Pulmonary Surfactant-Associated Alkaline Phosphatase Following Acute Cadmium Chloride Inhalation	
BRIEF, Richard S.: Benefits Versus Cost—A Tool for Industrial Hygiene Management	
BROSSEAU, L.M.: Collection Efficiency of Respirator Filters Challenged with Monodisperse Latex Aerosols	
BROWN, Stephanie K.: Health Symptoms and Occupational Exposure to Flea Control Products among California Pet Handlers	
BRUCKERT, H.J.: A Method for Correlating Skin Exposure to S-Mustard Vapor with Skin Damage	
BUNN, William B., III: Evaluating the Exposure Levels Incurred while Laundering Crystalline Silica-Contaminated Work Clothing	
BURFORD, Charles L.: Evaluation of a Prototype Microclimate Cooling System	
BURROUGHS, Frank G.: Near Real-Time Monitoring of Potential Dermal Exposure during Backpack Herbicide Spraying	
_	
С	
CANNATELLI, P.: Medical Monitoring of Dioxin Clean-Up Workers	586
CARTER, Dean E.: Reaction of Gallium Arsenide with Concentrated Acids: Formation of Arsine Dissolution of Crystalline Gallium Arsenide in Aqueous Solutions Containing Complexing Agents	
CASALI, John G.: An Exploratory Study of Moderate Physical Activity and Selected Design Attribute Effects on Earmuff Attenuation	
CASTORINA, Bryan T.: Determination of the Oxide Layer Thickness on Beryllium Metal Particles	
CECALA, Andrew B.: Reducing Workers' Dust Exposure during Bag Stacking in Enclosed Vehicles	
CHANG, Shau-Nong: A Diffusive Sampler for Personal Monitoring of Toluene Diisocyanate (TDI) Exposure; Part I: Design of the Dosimeter A Diffusive Sampler for Personal Monitoring of Toluene Diisocyanate (TDI) Exposure, Part II: Laboratory and Field Evaluation of	
the Dosimeter	

CAUTION—IF YOU HAVE YOUR JOURNALS BOUND, note that the following 1989 author/subject index contains a substantial number of items referenced to the "A-" pages which always precede the serially numbered main scientific content of each issue, and which succeed the scientific pages. These references cite information of value which, by format, does not lend itself to inclusion in the main portion of the issue.

When binding a year's collection of JOURNALS, it is common practice to strip off and discard the "A-" portions of each copy. HOWEVER, BEFORE DISCARDING 1989 "A-" PAGES—CHECK THEIR CONTENT, either by scanning the index and retaining cited pages, or reviewing each issue and retaining those "A-" pages which may be of future value. Copies of any "A-" pages previously discarded and now needed can be obtained from University Microfilms, Intl. Complete address and telephone number information is listed on the table of contents page of this or any issue of the JOURNAL.

1989 Authors Index

A	
ACKERMANS, Harry: A Device for Solvent Desorption of Volatile Organic Compounds from Activated Charcoal	1-94
ACKLEY, Mark W.: A Testing Protocol for Organic Vapor Respirator Canisters and Cartridges	
AKIYAMA, Takashi: Thermal Desorption Efficiencies of Two-Component Organic Solvents from Activated Carbon	24
ALEXEEFF, George V.: Problems Associated with the Use of Immediately Dangerous to Life and Health (IDLH) Values for Estimating the Hazard of Accidental Chemical Releases	509
AMES, Richard G.: Health Symptoms and Occupational Exposure to Flea Control Products among California Pet Handlers	
ANAND, N.K.: Particle Deposition in Aerosol Sampling Lines Caused by Turbulent Diffusion and Gravitational Settling	
ANASTAS, Mazen Y.: Finite Difference Methods for Computation of Flow into Local Exhaust Hoods	
ANDERSEN, G.H.: An Approach to Occupational Health Risk Management for a Diversified International Corporation	
ARAI, Douglas K.: Biological Monitoring of Toxic Metals in Urine by Simultaneous Inductively Coupled Plasma-Atomic Emission Spectrometry	
ARMSTRONG, Thomas J.: Subjective Worker Assessments of Hand Tools Used in Automobile Assembly	
APNOLD James E. Investigation of Charcoal Cloth as a Sorbent for Integrated Sampling of Solvent Vanors in Mixed Expired Breath	
Using a New Stainless Steel Sampler	112
ASSENNATO, G.: Medical Monitoring of Dioxin Clean-Up Workers	
AUDUNSSON, G.: The Efficiency of Air Pollutant Sampling by Midget Impingers with Amines as Model Compounds	535
AUSTRIA, Rodrigo J.: Occupational Exposure and Analysis of Microcrystalline Cristobalite in Mullite Operations	460
_	
В	
BABB, T.: Physical Performance during Combinations of Hypercapnic, Resistive, and Hot Air Breathing	105
BASTON, V.F.: Particle Penetration through Sampling Prefilters Illustrates the Analysis Error in NIOSH-Type Procedures for Nickel Carbonyl	-665
BERGLUND, L.G.: Effect of Thermal Conditions on the Acceptability of Respiratory Protective Devices on Humans at Rest	
BETZ. William R.: Characterization of Carbon Molecular Sieves and Activated Charcoal for Use in Airborne Contaminant Sampling	
BIDSTRUP, P. Lesley: Perspective on Safety: Personal Opinions	
BIGU, J.: Reduction of Airborne Radioactive Dust by Means of a Charged Water Spray	
BILAN, R.A.: Assessment of Isocyanate Exposure during the Spray Application of Polyurethane Foam	
BOLEIJ, Jan S.M.: Enumeration of Viable Fungi in Occupational Environments: A Comparison of Samplers and Media	
BOMAN, Anders S.: Permeation of Neoprene Protective Gloves by Acetone: Comparison of Three Different Permeation Celts in an Open-Loop System	
BOUDREAU, J.: The Response of the Pulmonary Surfactant-Associated Alkaline Phosphatase Following Acute Cadmium Chloride Inhalation	
BRIEF, Richard S.: Benefits Versus Cost—A Tool for Industrial Hygiene Management	
BROSSEAU, L.M.: Collection Efficiency of Respirator Filters Challenged with Monodisperse Latex Aerosols	
BROWN, Stephanie K.: Health Symptoms and Occupational Exposure to Flea Control Products among California Pet Handlers	
BRUCKERT, H.J.: A Method for Correlating Skin Exposure to S-Mustard Vapor with Skin Damage	
BUNN, William B., III: Evaluating the Exposure Levels Incurred while Laundering Crystalline Silica-Contaminated Work Clothing	
BURFORD, Charles L.: Evaluation of a Prototype Microclimate Cooling System	
BURROUGHS, Frank G.: Near Real-Time Monitoring of Potential Dermal Exposure during Backpack Herbicide Spraying	
_	
С	
CANNATELLI, P.: Medical Monitoring of Dioxin Clean-Up Workers	586
CARTER, Dean E.: Reaction of Gallium Arsenide with Concentrated Acids: Formation of Arsine Dissolution of Crystalline Gallium Arsenide in Aqueous Solutions Containing Complexing Agents	
CASALI, John G.: An Exploratory Study of Moderate Physical Activity and Selected Design Attribute Effects on Earmuff Attenuation	
CASTORINA, Bryan T.: Determination of the Oxide Layer Thickness on Beryllium Metal Particles	
CECALA, Andrew B.: Reducing Workers' Dust Exposure during Bag Stacking in Enclosed Vehicles	
CHANG, Shau-Nong: A Diffusive Sampler for Personal Monitoring of Toluene Diisocyanate (TDI) Exposure; Part I: Design of the Dosimeter A Diffusive Sampler for Personal Monitoring of Toluene Diisocyanate (TDI) Exposure, Part II: Laboratory and Field Evaluation of	
the Dosimeter	

CORRET BLANDARY I. Insert-Type Hearing Protector Stability as a Function of Controlled Jaw Movement	CHEVALIER, G.: The Response of the Pulmonary Surfactant-Associated Alkaline Phosphatase Following Acute Cadmium	
COURTE, Roward J. Development of a Field Method for Featurella by Service Life of Organic Vapor Cartridges: Results of Laboratory Telesting Diang Carbon Testscholande COURTE, Howard J. Development of a Field Method for Featurella by Service Life of Organic Vapor Cartridges: Results of Laboratory Telesting Diang Carbon Testscholande COURTE, Laboratory Carbon Cartridges: Development J. Service Life of Organic Vapor Cartridges: Results of Laboratory Telesting Diang Carbon Cartridges: Development J. Service Method (Diang Carbon) COURTE, Cartridges: A Level Standard Carbon Cartridges: Service Method (Diang Carbon) COURTED, Laboratory Cartridges: Development J. Service Method (Diang Standard Value) COURTED, Cartridges: A Level Cartridges: Development of Malerials COURTED, Cartridges: A Level Cartridges: Development of Malerials D. D. L. L. J. An Approach to Courtain Organic Aleranda Cardon Super Beet Sciency D. D. MAIGE, L. L. An Approach to Courtain Organic Aleranda Cardon Super Beet Sciency D. D. MAIGE, L. L. J. An Approach to Courtain Organic Aleranda Cardon Super Beet Sciency D. D. MAIGE, L. L. An Approach to Courtain Organic Aleranda Cardon Super Beet Sciency D. D. MAIGE, L. L. An Approach to Courtain Organic Aleranda Cardon Super Beet Sciency D. D. MAIGE, L. L. An Approach to Courtain Organic Aleranda Cardon Super Beet Sciency D. D. MAIGE, L. L. An Approach to Courtain Organic Aleranda Cardon Super Beet Sciency D. D. MAIGE, L. L. An Approach to Courtain Organic Aleranda Cardon Super Beet Sciency D. D. MAIGE, L. L. An Approach to Courtain Organic Aleranda Cardon Super Beet Sciency D. D. MAIGE, L. L. An Approach to Courtain Organic Aleranda Cardon Super Beet Sciency D. D. MAIGE, L. L. An Approach to Courtain Organic Free Science Cardon Super Beet Sciency D. D. MAIGE, L. L. An Approach to Courtain Super Beet Sciency D. D. MAIGE, L. L. An Approach to Courtain Super Beet Sciency D. D. MAIGE, L. L. An Approach to Courtain Super Beet Sciency D. D. Maige, L. L. S. And Science Cardon Science Science		
COLEAN, Seedon E. Hest Strange Capacity of Gelied Colamins in Ce Vests COLEANA, Seedon E. Hest Strange Capacity of Gelied Colamins in Ce Vests COLEANA, Seedon E. Hest Strange Capacity of Gelied Colamins in Ce Vests COLEANA, Seedon E. Hest Strange Capacity of Gelied Colamins in Ce Vests COLEANA, Seedon E. Hest Strange Capacity of Gelied Colamins in Ce Vests CORNWELL A. Button, Excusposation (Capacity Language Colamins) CORNWELL A. Language Colamins (Capacity Language Colamins) CORNWELL A. Language Colamins (Capacity Language Colamins) CORNWELL C. Language Colamins (Capacity Language Colamins) CORNWELL C. Registed: Decorationamiston of Colemical Protective Coloming INCOMINITION, Capacity Colamins (Capacity Capacity C		
COLEMAN, Sealdon Et: Hest Storage Capacity of Gelefic Oceants in tox Vests CORN, Warre A. Decuptional Sporum this for Curricogners—varient Agroaves by Different Countries A50 CORNWELL, B.1: Assessment of Respiratory Exposures during Biocenie Mining and Milling Operations CORNIELL, B.1: Assessment of Respiratory Exposures during Biocenie Mining and Milling Operations COWIELD, Chatten, Jr.: Dust Inhalston Exposures from the Nacing of Standard Velocies 99 COWIELD, Chatten, Jr.: Dust Inhalston Exposures from the Nacing of Standard Velocies 190 COWIELD, Chatten, Jr.: Dust Inhalston Exposures from the Handling of Small Volumes of Prodests 112 CROOK, B.: Investigation of Organic Aerosols Generated during Sugar Beet Slicing 112 CROOK, B.: Investigation of Organic Aerosols Generated during Sugar Beet Slicing 112 CROOK, B.: Investigation of Organic Aerosols Generated during Sugar Beet Slicing 112 CROOK, B.: Investigation of Organic Aerosols Generated during Sugar Beet Slicing 112 CROOK, B.: Investigation of Organic Aerosols Generated during Sugar Beet Slicing 112 CROOK, B.: Investigation of Organic Aerosols Generated during Sugar Beet Slicing 112 CROOK, B.: Investigation of Organic Aerosols Generated during Sugar Beet Slicing 112 CROOK, B.: Standard Slicing S	COHEN, Howard J.: Development of a Field Method for Evaluating the Service Life of Organic Vapor Cartridges: Results of Laboratory	
COOK Warren A.: Occupational Exposure Limits for Currongeme—Variant Approaches by Different Countries CONFELL B. 1. Seasoment of Respirator y Esposures during Betg Stacking in Enclosed Vehicles COVELLA Anthony: Reducing Workers' Dust Exposure during Betg Stacking in Enclosed Vehicles COVELLA Anthony: Reducing Workers' Dust Exposure during Betg Stacking in Enclosed Vehicles COVERED, Landson: Dust Inhalation Exposures from the Hondrieging Small Volumes of Prodests Inh Anaparatus and Methodology for Predicting the Dustiness of Materials IDD DANGLE, L.T.: An Approach to Occupational Health Risk Management for a Diversified International Corporation 224 DAMIANA, Jose A Guideline for Managing the Industrial Hygene Sampling Function 326 DAMIANA, Jose A Guideline for Managing the Industrial Hygene Sampling Function 327 DERENTITER, A.: Surface Characteristics of Abelestos Fibers Released from Abelestos Gement Products 328 DERENTITER, A.: Surface Characteristics of Abelestos Fibers Released from Abelestos Gement Products 329 DOMA, C.B.: Assessment of Respiratory Exposures Guirne Glotsofte Mining and Mining Operations 413 DONG, Villing Performance Characteristics of Control Beviese for Ministrial Outstantine, In-Live Enting of Laboratory Exhaust Hoods 500 DONG, Villing Performance Characteristics of Orontal Beviese the Ministrial Outstantine, In-Live Health Control Entire State Institute Outstantine, In-Live Bellegal Laboratory Protective Devices on Humans at Rest 518 DERUTTER, A.: Surface Characteristics of Orontal Beviese the Ministrial Outstantine, In-Live Health Control Protective Clothing by Drops under Pressure Loads: Repellent and Wicking Fabrics 500 DERUTTERS, John Maric: Hexamethylenetetramine, A Review 507 DONG, C.B.: Protection of Permoable Chemical Protective Clothing by Drops under Pressure Loads: Repellent and Wicking Fabrics 508 DERUTTER, A. Collection Efficiency of Respirator Filters Challenged with Monodisperse Lates Aerosols 509 DERUTTERS, L. Collection Efficiency of Respirator Filters Chall	COLEMAN Sheldon P : Host Storage Canacity of Called Contents in lea Verte	486
CORNING IL. R.J. Assessment of Respiratory Exposures during Globenie Mining and Mining Operations	COOK. Warren A.: Occupational Exposure Limits for Carcinogens—Variant Approaches by Different Countries	-680
COVERIED, Chartes, T- Deal Inhalation Supposers from the Handling of Small Volume of Products 131 An Apparatus and Methodology for Predicting the Dustiness of Maternals 122 CROOK, B.: Investigation of Organic Aerosols Generated during Sugar Beet Slicing 44 ACROCK, B.: Investigation of Organic Aerosols Generated during Sugar Beet Slicing 44 ACROCK, B.: Investigation of Organic Aerosols Generated during Sugar Beet Slicing 44 ACROCK, B.: Investigation of Organic Aerosols Generated during Sugar Beet Slicing 44 ACROCK, B.: Investigation of Organic Aerosols Generated during Sugar Beet Slicing 44 ACROCK, B.: Investigation of Organic Aerosols Generated during Sugar Beet Slicing 44 ACROCK, B.: Investigation of Organic Aerosols Generated during Sugar Beet Slicing 44 ACROCK, B.: Investigation of Organic Aerosols Generated Respiratory Explosive Sugarity Function 54 ACROCK, B.: Investigation of Computer Sugarity Function 54 ACROCK, B.: Investigation of Computer Sugarity Function 54 ACROCK, B.: Investigation of Computer Sugarity Function 54 ACROCK, B.: Investigation of Respiratory Explosures during Gloonite Mining and Milling Operations 54 ACROCK, B.: Assessment of Respiratory Explosures during Gloonite Mining and Milling Operations 54 ACROCK, B.: Assessment of Respiratory Explosures during Gloonite Mining and Milling Operations 54 ACROCK, B.: Assessment of Respiratory Explosures during Gloonite Mining and Milling Operations 54 ACROCK, B.: Assessment of Respiratory Explosures during Gloonite Mining and Milling Operations 54 ACROCK, B.: Assessment of Respiratory Explosures during for Explosures of Milling Operations 54 ACROCK, B.: Assessment of Respiratory Explosures during for Pressure Loads: Repellent and Wicking Fabrics 54 ACROCK, B.: Assessment of Respiratory of Respiratory Friencis (Productive Devices on Humans at Rest 54 ACROCK, B.: Assessment of Respiratory of Respiratory Filters Challenged with Minodisperse Lates Aerosols 54 ACROCK, B.: Assessment of Respiratory of Respirato		
COWHERD, Chatten, Jr.: Dust Inhalation Exposures from the Handing of Small Volumes of Providers In Apparatus and Methodology for Predicting the Dusiness of Materials IZZ CROOK, B.: Investigation of Organic Aerosols Generated during Sugar Beet Slicing A A A A A A A A A A A A A		
DAIGLE, LT.: In Apprach to Occupational Health Risk Management for a Diversified International Corporation DAIGLE, LT.: In Apprach to Occupational Health Risk Management for a Diversified International Corporation 224 DAMIANO, Joe: A Guideline for Managing the Industrial Hygiene Sampling Function 326 DELANEY, Regislation Decontamination of Chemical Protective Outling 327 DAMIANO, Joe: A Guideline for Managing the Industrial Hygiene Sampling Function DERANTIFIEE, As: Surface Characteristics of Ashestos, Fibers Released from Ashestos-Cement Products 328 DERETARIONS, LOSS 3-1. New Method for Quantitative, In the Testing of Laboratory Fune Hoods 329 DOME, Tolia: Performance Characteristics of Control Devices to Mantain Constant Face Velocity to Laboratory Enhant Hoods 320 DOME, Tolia: Performance Characteristics of Control Devices to Mantain Constant Face Velocity to Laboratory Enhant Hoods 320 DREFTORS, John Marc. Hexamethyleneletramine: A Review 327 DEMOIS, A.B.: Elect of Ihremal Confidence on the Acceptability of Reparatory Protective Devices on Humans at Rest 328 DYRUD, James F.: Oxone Removal Capability of a Welding Fume Respiratory Containing Activated Charcoal 451 DYRUD, James F.: Oxone Removal Capability of a Welding Fume Respiratory Containing Activated Charcoal 452 DYRUD, James F.: Oxone Removal Capability of a Welding Fume Respiratory Enhanced Charcoal 453 DYRUD, James F.: Oxone Removal Capability of a Welding Fume Respirator Filters Challenged with Monodisperse Lates Aerosols 454 DYRUD, James F.: Medical Monitoring of Doxin Clean-Lip Workers 455 DYRUD, James F.: Medical Monitoring of Doxin Clean-Lip Workers 456 DYRUD, James F.: Medical Monitoring of Doxin Clean-Lip Workers 457 DYRUD, James F.: Medical Monitoring of Respirator Filters Challenged with Monodisperse Lates Aerosols 458 DYRUD, James F.: Medical Monitoring of Respirator Filters Challenged with Monodisperse Lates Aerosols 459 DYRUD, James F.: Medical Monitoring of Respiratory Filters Challenged with Monodisperse Lates Aeroso	COWHERD, Chatten, Jr.: Dust Inhalation Exposures from the Handling of Small Volumes of Powders	131
D DAIGLE, LT: An Approach to Occupational Health Risk Management for a Diversified International Corporation		
DAIGLE, L.T.: An Approach to Occupational Health Risk Management for a Diversified International Corporation	CROOK, B. IIIVESUIGALIAN OI OIGENIC METOSOIS GENERALED GUINING SUGAI DEEL SIICHING	**
DAIGLE, L.T.: An Approach to Occupational Health Risk Management for a Diversified International Corporation	D	
DAMINAD, Joer A Gueldeine for Managing the Industrial Hygiene Sampling Function DERLANTS, Registral Expendituration of Demoiar Protective Orbining DERLANTS, Surface Characteristics of Asbestos Fibers Released from Asbestos-Cement Products OSAR, C.B. Assessment of Respiratory Exposures during Gliotente Mining and Milling Operations OSAR, C.B. Assessment of Respiratory Exposures during Gliotente Mining and Milling Operations DONG, Vibining Performance Characteristics of Control Devices to Maintain Constant Face Velocity for Laboratory Exhaust Hoods SOI DURIOS, A.B.: Effect of Inherinal Conditions on the Acceptability of Respiratory Protective Devices on Humans at Rest 188 DYRIJD, James F.: Ozone Removal Capability of a Welding Fume Respirator Containing Activated Charcoal E E EGGESTAD, Jan: Penetration of Permeable Chemical Protective Clothing by Drops under Pressure Loads: Repellent and Wicking Fabrics 301 ELEKRISCARE, M.J.: Collection Efficiency of Respirator Fibers Challenged with Monodisperse Lates Aerosols 544 EIMBERT, E.: Medical Monitoring of Dioxin Clean-Uly Workers 556 ENGLEHART, Philip J. Jan Apparation and Methodology for Predicting the Dustiness of Materials F FAIRFAX, Richard E.: Noise Abatement Techniques in Southern Pine Sawmills and Planer Mills 547 FAIRFAX, Bichard E.: Noise Abatement Techniques in Southern Pine Sawmills and Planer Mills 548 FERRIANDO, Quintus: Reaction of Galium Arzenide with Concentrated Aridis Fermation of Arxine 1958 1968 1978 FERRIANDO, Quintus: Reaction of Galium Arzenide with Concentrated Aridis Fermation of Arxine 1978		
DELANTEY, Reginalic Decontainmation of Chemical Protective Cothing DERIYTERE, A. Surface Characteristics of Abstests Febre Released from Abbestos-Cement Products DIBERARDINIS, Louis J.: A New Method for Quantitative, in-Use Testing of Laboratory Fune Hoods 275 DIBERARDINIS, Louis J.: A New Method for Quantitative, in-Use Testing of Laboratory Fune Hoods 275 DONE, Tobing: Performance Characteristics of Control Decision Manifacia (Institute Mining and Milling Operations MIDERS, A.S.: Elficient of Thermal Confinitions on the Acceptability of Respiratory Protective Devices on Humans at Rest DREVIORS, John Marc: Hexamethylenetetramine A Review 579 DUBBIS, A.S.: Elficient of Thermal Confinitions on the Acceptability of Respiratory Protective Devices on Humans at Rest 188 DYRUD, James F.: Ozone Removal Capability of a Welding Fume Respirator Containing Activated Charcoal E EGGESTAD, Jan: Penetration of Permeable Chemical Protective Clothing by Drops under Pressure Loads: Repellent and Wicking Fabrics 321 ELLERBECKER, M.J.: Collection Efficiency of Respirator Filters Challenged with Monodisperse Latex Aerosobs 534 ENGLEHART, Phillip J.: An Apparatus and Methodology for Predicting the Dustiness of Materials EVANS, J.S.: Collection Efficiency of Respirator Filters Challenged with Monodisperse Latex Aerosobs 534 FF FAIRFAX, Richard E.: Noise Abatement Techniques in Southern Pine Sawmills and Planer Mills FRARANTS, George: Characterization of the Morphological Properties of Welding Fume Particles by Transmission Electron Microscopy and Digital Image Analysis FERNANDO, Quintus: Reaction of Gallium Assensie with Concentrates Acids Formation of Asine 137 FERNANDO, Quintus: Reaction of Gallium Assensie with Concentrates Acids Formation of Asine 138 FERNANDO, Quintus: Reaction of Gallium Assensie with Concentrates Acids Formation of Asine 139 FERNANDO, Quintus: Reaction of Gallium Assensie with Concentrates Acids Formation of Asine 140 FERNANDO, Robert C.: Elected on Gallium Assensie for Manual L		
DERLYTTERE. A. Surface Characteristics of Absolute Fibers Released from Absolute Comment Products DDAK, C. B. Assessment of Respiratory Exposured uring Glosonte Mining and Milling Operations DDAK, C. B. Assessment of Respiratory Exposured uring Glosonte Mining and Milling Operations 413 DDNG. Vibing: Performance Characteristics of Control Devices to Maintain Constant Face Velocity for Laboratory Exhaust Hoods 901 DBRTFORS, John Mark: Hexamethylenetrations: A Reiver State Stat		
DIBERARDINIS, Louis J. 1. A New Method for Quantitative, In-Use Testing of Laboratory Fume Hoods DONG, Circumscent of Respiratory Exposures during Gilsonite Mining and Milling Operations DONG, Tibring: Performance Characteristics of Control Devices to Maritain Constant Face Velocity for Laboratory Exhaust Hoods S01 DREFFORS, John Marc: Hexamethyleneletramine: A Review S79 DUBIOS, A.B.: Elfect of Thermal Conditions on the Acceptability of Respiratory Protective Devices on Humans at Rest 188 DYRUD, James F.: Ozone Removal Capability of a Welding Fume Respirator Containing Activated Charcoal 451 E EGGESTAD, Jan: Penetration of Permeable Chemical Protective Cothing by Drops under Pressure Loads: Repellent and Wicking Fabrics 321 ELLENBECKER, M. J.: Collection Efficiency of Respirator Filters Challenged with Monodisperse Latex Aerosols 544 ENMETT, E: Medical Monotinging Olison (Dear-Up Winders 545 ENMETT, E: Medical Monotinging Olison (Dear-Up Winders 546 ENALEHART, Phillip J.: An Apparatus and Methodology for Predicting the Dustiness of Materials 122 EVANS, J.S.: Collection Efficiency of Respirator Filters Challenged with Monodisperse Latex Aerosols 546 FREGUSON, R.P.: Assessment of Respirator Filters Challenged with Monodisperse Latex Aerosols 547 FRERDATIS, George: Characterization of the Morphological Properties of Welding Fume Particles by Transmission Electron Microscopy and Digital Image Analysis 547 FRERDATIS, Callection Efficiency of Respirator Filters Challenged with Monodisperse Latex Aerosols 548 FRERDATIS, Callection Efficiency of Respirator Filters Challenged with Monodisperse Latex Aerosols 549 FRERDATIS, Callection Efficiency of Respirator Filters Challenged with Monodisperse Latex Aerosols 540 FRERDATIS, Callection Efficiency of Respirator Filters Challenged with Monodisperse Latex Aerosols 541 FRERDATIS, Callection Efficiency of Respirator Filters Challenged with Monodisperse Latex Aerosols 547 FRERDATIS, Callection Efficiency of Respirator Filters Challenged wi		
DONG, Vibing, Performance Characteristics of Control Devices to Maintain Constant Face Velocity for Laboratory Exhaust Hoods 501 DREVFORS, John Marc: Hexamethyleneletamine: A Review 579 DABOIS, A.B.: Effect of Thermat Conditions on the Acceptability of Respiratory Protective Devices on Humans at Rest 188 DYRUD, James F: Ozone Removal Capability of a Welding Fume Respirator Containing Activated Charcoal 451 E EGGESTAD, Jan: Penetration of Permeable Chemical Protective Ciothing by Drops under Pressure Loads: Repellent and Wicking Fabrics 301 ELLERBECKER, M.J.: Collection Efficiency of Respirator Filters Challenged with Monodisperse Latex Aerosols 544 EMIRETT, E: Medical Monitoring of Down Clean-Lip Wicking 547 ENAIST, J.S.: Collection Efficiency of Respirator Filters Challenged with Monodisperse Latex Aerosols 548 EVANS, J.S.: Collection Efficiency of Respirator Filters Challenged with Monodisperse Latex Aerosols 549 F FAIRFAX, Richard E: Noise Abatement Techniques in Southern Pime Sawmills and Planer Mills 540 FERBUSDON, R.P.: Assessment of Respirator Filters Challenged with Monodisperse Latex Aerosols 547 FERBUSDON, R.P.: Assessment of Respirator Filters Challenged with Monodisperse Latex Aerosols 548 FERBUSDON, R.P.: Assessment of Respirator Filters Challenged with Monodisperse Latex Aerosols 549 FERBUSDON, R.P.: Assessment of Respirator Filters Challenged with Monodisperse Latex Aerosols 540 FERBUSDON, R.P.: Assessment of Respirator Filters Challenged with Monodisperse Latex Aerosols 541 FERBUSDON, R.P.: Assessment of Respirator Filters Challenged with Monodisperse Latex Aerosols 541 FERBUSDON, R.P.: Assessment of Respirator Filters Challenged with Monodisperse Latex Aerosols 542 FERBUSDON, R.P.: Assessment of Respirator Filters Challenged with Monodisperse Latex Aerosols 543 FERBUSDON, R.P.: Assessment of Respirator Filters Challenged with Monodisperse Latex Aerosols 544 FERBUSDON, R.P.: Assessment of Respirator Filters Challenged with Monodisperse Latex Aerosols 545 FERBUSDON, Review R		
DREFFORS, John Marc. Hexamethylenetetramine: A Review UnBOIS, A. B.: Effect of Thermal Conditions on the Acceptability of Respiratory Protective Devices on Humans at Rest 188 PRIVID. James F.: Ozone Removal Capability of a Welding Fume Respirator Containing Activated Charcoal 451 E E EGGESTAD, Jan: Penetration of Permeable Chemical Protective Clothing by Drops under Pressure Loads: Repellent and Wicking Fabrics 301 ELLENBECKER, MJ.: Collection Efficiency of Respirator Filters Challenged with Monodisperse Lates Aerosols 544 EMBETT, E.: Medical Monitoring of Doxin Clean-Up Workers 546 ENGLEHART, Phillip J.: An Apparatus and Methodology for Predicting the Dustiness of Materials 122 EVANS, J.S.: Collection Efficiency of Respirator Filters Challenged with Monodisperse Lates Aerosols 547 F FAIRFAX, Richard E.: Noise Abatement Techniques in Southern Pine Sawmills and Planer Mills FARRANTS, George: Characterization of the Morphological Properties of Welding Fume Particles by Transmission Electron Microscopy and Digital image Analysis 477 FEURISTIN, M.L.: Collection Efficiency of Respirator Filters Challenged with Monodisperse Latex Aerosols 548 FERGUSON, R.P.: Assessment of Respiratory Exposured during and Milling Operations 413 FERNANDO, Quinter: Reaction of Callium Arsende in Aqueous Solutions Containing Complexing Agents FILIPP, N.: Combustor Risks Procedure for the Preparation of Samples of Arsenic Collection of Filter Media 559 FIRST, Melvin W.: A New Method of Quantitative, Inc. Les Festing of Loboratory Fume Hoods 576 FIRST, Melvin W.: A New Method of Quantitative, Inc. Les Festing of Loboratory Fume Hoods 577 FIRST, Melvin W.: A New Method of Quantitative, Inc. Les Festing of Loboratory Fume Hoods 578 FRANKE, John E.: Emission Factors for Trichloroethylene Vapor Degreasers 579 G GARMON, Robert C.: Effects of Pressure Demand Respirator War on Physiological And Perceptual Variables during Progressive Exercise to Maximal Evels GARMON, Robert C.: Effects of Pressure Demand Respirator War on Phy	DOAK, C.B.: Assessment of Respiratory Exposures during Gilsonite Mining and Milling Operations	413
DuBDIS, A.B.: Effect of Thermal Conditions on the Acceptability of Respiratory Protective Devices on Humans at Rest 18 DYRUD, James F.: Ozone Removal Capability of a Welding Fume Respirator Containing Activated Charcoal 451 E E EGGESTAD, Jan: Penetration of Permeable Chemical Protective Clothing by Drops under Pressure Loads: Repellent and Wicking Fabrics 301 ELILE RISECKER, M.J.: Collection Efficiency of Respirator Filters Challenged with Monodisperse Lates Aerosobs 544 ENBERTT, E: Medical Monotroning of Dixoni Clean-Lip Workers 556 ENGLEHART, Phillips J.: An Apparatus and Methodology for Predicting the Dustiness of Materials 122 EVANS, J.S.: Collection Efficiency of Respirator Filters Challenged with Monodisperse Lates Aerosobs 544 F FAIRFAX, Richard E: Noise Abatement Techniques in Southern Pine Sawmills and Pianer Mills 547 FARRANTS, George: Characterization of the Morphological Properties of Welding Fume Particles by Transmission Electron Microscopy 37 37 37 FELDISTEIN, M.L.: Collection Efficiency of Respirator Filters Challenged with Monodisperse Lates Aerosobs 544 FERRIGHON, R.P.: Assessment of Respiratory Exposures during Glisonite Mining and Milling Operations 541 FERRIANDO, Quintrus: Rescion of Galilum Arsenide in Aqueus Solutions Continuing Complexing Qenations 43 FERRIANDO, Quintrus: Rescion of Galilum Arsenide in Aqueus Solutions Continuing Complexing Agents 54 FILIPP, N.: Combustion Fisiak Procedure for the Preparation of Samples of Arsenic Collected on Filter Media 59 FIRTH, Matthew C: Characterization of Carbon Molecular Sieves and Activated Charcoal for Use in Airborne Contaminant Sampling 18 FIRTH, Matthew C: Characterization of Carbon Molecular Sieves and Activated Charcoal for Use in Airborne Contaminant Sampling 18 FIRTH, Matthew C: Characterization of Daganic Aerosols Generated during Sugar Beet Slicing 19 FOURINER, M.: The Response of the Pulmonary Surfactant-Associated Allaline Phosphatase Following Acute Cadmium 19 Chioric Inhalation 19 FOURINER, M.: The Response of the Pulmonary Surf		
DYRUD, James F.: Ozone Removal Capability of a Welding Fume Respirator Containing Activated Charcoal		
EGGESTAD, Jan: Penetration of Permeable Chemical Protective Clothing by Drops under Pressure Loads: Repellent and Wicking Fabrics 321 ELICNBECKER, M.J.: Collection Efficiency of Respirator Filters Challenged with Monodisperse Latex Aerosols 544 EMMETT, E.: Medical Monitoring of Dioxin Clean-Up Workers 556 ENGLEHART, Phillip J.: An Apparatus and Methodology for Predicting the Dustiness of Materials 123 EYANS, J.S.: Collection Efficiency of Respirator Filters Challenged with Monodisperse Latex Aerosols 544 F FAIRFAX, Richard E.: Noise Abatement Techniques in Southern Pine Sawmills and Planer Mills 547 FARRANTS, George: Characterization of the Morphological Properties of Welding Fume Particles by Transmission Electron Microscopy and Digital Image Analysis 547 FELDSTEIN, M.L.: Collection Efficiency of Respirator Filters Challenged with Monodisperse Latex Aerosols 547 FERNANDO, Quintus: Reaction of Callium Arsenide in Aqueous Solutions Containing Complexing Agents 547 FERNANDO, Quintus: Reaction of Callium Arsenide in Aqueous Solutions Containing Complexing Agents 547 FILIPP, N.: Combustion Flask Procedure for the Preparation of Samples of Arsenic Collected on Filter Media 559 FIRCH, Gregory L.: Determination of the Oxide Layer Thickness on Beryllium Metal Particles 557 FIRST, Mathiw W.: A New Method for Quantitative, In-Use Testing of Laboratory Fume Hoods 527 FIRST, Mathiw R.: The Boundary Integral Equation Method (BERD) for Modeling Local Echaust Hood Flow Fields 528 FRANKIS, M.: The Response of the Pulmonary Surfactant-Associated Alkaline Phosphatase Following Acute Cadmium Chloride Inhalation of the Pulmonary Surfactant-Associated Alkaline Phosphatase Following Acute Cadmium Chloride Inhalation of the Response of the Pulmonary Surfactant-Associated Alkaline Phosphatase Following Acute Cadmium Chloride Inhalation of Medis for Local Exhaust Hood Flow Fields 549 FRANKIS, John E.: Emission Factors for Trichloreethylene Vapor Degreasers 549 G G GARRIGO, N.: The Effect of Pressure-Demand Respirator Wear on Physiolo		-
EGGESTAD, Jan: Penetration of Permeable Chemical Protective Clothing by Drops under Pressure Loads: Repellent and Wicking Fabrics 321 ELLENBECKER, M.J.: Collection Efficiency of Respirator Filters Challenged with Monodisperse Latex Aerosols 546 EMMETT, E.: Medical Monitoring of Dioxin Clean-Up Workers 556 ENGLEHART, Phillip J.: An Apparatus and Methodology for Predicting the Dustiness of Materials 123 EVANS, J.S.: Collection Efficiency of Respirator Filters Challenged with Monodisperse Latex Aerosols 554 F FAIRFAX, Richard E.: Noise Abatement Techniques in Southern Pine Sawmills and Planer Mills FARRANTS, George: Characterization of the Morphological Properties of Welding Fume Particles by Transmission Electron Microscopy and Digital Image Analysis 634 FARRANTS, George: Characterization of the Morphological Properties of Welding Fume Particles by Transmission Electron Microscopy and Digital Image Analysis 634 FERGUSON, R.P.: Assessment of Respirator Filters Challenged with Monodisperse Latex Aerosols 544 FERGUSON, R.P.: Assessment of Respiratory Exposures during Gilsonite Mining and Milling Operations 544 FERGUSON, R.P.: Assessment of Respiratory Exposures during Gilsonite Mining and Milling Operations 645 FERGUSON, R.P.: Assessment of Respiratory Exposures during Gilsonite Mining and Milling Operations 645 FERGUSON, R.P.: Assessment of Despiratory Exposures during Gilsonite Mining and Milling Operations 645 FERGUSON, R.P.: Assessment of Carbon Advanced Acids: Formation of Arsine 645 FERGUSON, R.P.: Assessment of Respiratory Exposures 645 FERGUSON, R.P.: Assessment 645 FERGUSON	DTKUD, James F.: Ozone Removal Capability of a Welding rume Respirator Containing Activated Charcoal	451
EGGESTAD, Jan: Penetration of Permeable Chemical Protective Clothing by Drops under Pressure Loads: Repellent and Wicking Fabrics 321 ELLENBECKER, M.J.: Collection Efficiency of Respirator Filters Challenged with Monodisperse Latex Aerosols 546 EMMETT, E.: Medical Monitoring of Dioxin Clean-Up Workers 556 ENGLEHART, Phillip J.: An Apparatus and Methodology for Predicting the Dustiness of Materials 123 EVANS, J.S.: Collection Efficiency of Respirator Filters Challenged with Monodisperse Latex Aerosols 554 F FAIRFAX, Richard E.: Noise Abatement Techniques in Southern Pine Sawmills and Planer Mills FARRANTS, George: Characterization of the Morphological Properties of Welding Fume Particles by Transmission Electron Microscopy and Digital Image Analysis 634 FARRANTS, George: Characterization of the Morphological Properties of Welding Fume Particles by Transmission Electron Microscopy and Digital Image Analysis 634 FERGUSON, R.P.: Assessment of Respirator Filters Challenged with Monodisperse Latex Aerosols 544 FERGUSON, R.P.: Assessment of Respiratory Exposures during Gilsonite Mining and Milling Operations 544 FERGUSON, R.P.: Assessment of Respiratory Exposures during Gilsonite Mining and Milling Operations 645 FERGUSON, R.P.: Assessment of Respiratory Exposures during Gilsonite Mining and Milling Operations 645 FERGUSON, R.P.: Assessment of Despiratory Exposures during Gilsonite Mining and Milling Operations 645 FERGUSON, R.P.: Assessment of Carbon Advanced Acids: Formation of Arsine 645 FERGUSON, R.P.: Assessment of Respiratory Exposures 645 FERGUSON, R.P.: Assessment 645 FERGUSON	F .	
ELLENBECKER, M.J.: Collection Efficiency of Respirator Filters Challenged with Monodisperse Latex Aerosols 544 EMBETT, E.: Medical Monitoring of Dioxin Clean-Up Workers 556 ENGLEHART, Philip J.: An Apparatus and Methodology for Predicting the Dustiness of Materials 123 EVANS, J.S.: Collection Efficiency of Respirator Filters Challenged with Monodisperse Latex Aerosols 544 FAIRFAX, Richard E.: Noise Abatement Techniques in Southern Pine Sawmills and Planer Mills FARRANTS, George: Characterization of the Morphological Properties of Welding Fume Particles by Transmission Electron Microscopy and Digital Image Analysis FEDSTEIN, M.L.: Collection Efficiency of Respirator Filters Challenged with Monodisperse Latex Aerosols 547 FERNANDO, Quintus: Reaction of Gallium Arsenice with Concentrated Acids: Formation of Arsine Dissolutions of Dystalline Gallium Arsenice with Concentrated Acids: Formation of Arsine Dissolutions of Dystalline Gallium Arsenice in Aqueous Solutions Containing Complexing Agents 548 FILIPP, N.: Combustion Flask Procedure for the Preparation of Samples of Arsenic Collected on Filter Media 559 FIRST, Melvin W.: A New Method for Quantitative, In-Use Testing of Laboratory Fume Moods 571 FIRST, Melvin W.: A New Method for Quantitative, In-Use Testing of Laboratory Fume Moods 573 FIRST, Melvin W.: A New Method for Quantitative, In-Use Testing of Laboratory Fume Moods 574 FIRST, Melvin W.: A New Method for Quantitative, In-Use Testing of Laboratory Fume Moods 575 FIRST, Melvin W.: A New Method for Quantitative, In-Use Testing of Laboratory Fume Moods 576 FIRST, Melvin W.: A New Method for Quantitative, In-Use Testing of Laboratory Fume Moods 577 FIRST, Melvin W.: A New Method for Quantitative, In-Use Testing of Laboratory Fume Moods 578 FIRST, Melvin W.: A New Method for Quantitative, In-Use Testing of Laboratory Fume Moods 579 FIRST, Melvin W.: A New Method for Quantitative, In-Use Testing Output Metal Particles 570 FORSTER, Helen W.: Investigation of Organic Aerosols Generated during Suga		•••
EMMETT, E.: Medical Monitoring of Dioxin Clean-Up Workers ENOLEHART, Phillip J.: An Apparatus and Methodology for Predicting the Dustiness of Materials EVANS, J.S.: Collection Efficiency of Respirator Filters Challenged with Monodisperse Latex Aerosols 544 FARRANTS, George: Characterization of the Morphological Properties of Welding Fume Particles by Transmission Electron Microscopy and Digital Image Analysis 473 FELDSTEIN, M.L.: Collection Efficiency of Respirator Filters Challenged with Monodisperse Latex Aerosols 544 FERGUSON, R.P.: Assessment of Respiratory Exposures during Gilsonite Mining and Milling Operations 545 FERNANDO, Quinturs: Reaction of Gallium Arsenide with Concentrated Acids: Formation of Arsenic Dissolutions of Crystalline Gallium Arsenide in Aqueous Solutions Containing Complexing Agents 545 FILIPP, N.: Combustion Flask Procedure for the Preparation of Samples of Arsenic Collected on Filter Media 545 FIRCH, Meyror U.: Determination of the Oxide Layer Thickness on Beryllium Metal Particles 556 FIRST, Melvin W.: A New Method for Quantitative, In-Use Testing of Laboratory Fume Hoods 577 FIRTH, Matthew C.: Characterization of Carbon Molecular Sieves and Activated Charcoal for Use in Airborne Contaminant Sampling 188 FORSTER, Helen W.: Investigation of Organic Aerosols Generated during Sugar Beet Slicing 640 FOURNIER, M.: The Response of the Pulmonary Surfactant-Associated Alkiaine Phosphatase Following Acute Cadmium Chloride Inhalation 331 FRANKE, John E.: Emission Factors for Trichloroethylene Vapor Degreasers 436 GARRISON, Richard P.: Evaluation of Models for Local Exhaust Velocity Characteristics—Part One: Velocity Contours for Freestanding and Bounded Inlets 534 535 546 547 548 549 549 540 541 541 541 545 546 547 547 548 548 548 549 549 549 540 540 541 541 541 544 545 545		
EVAINS, J.S.: Collection Efficiency of Respirator Filters Challenged with Monodisperse Latex Aerosols FARRANT, Collection Efficiency of Respirator Filters Challenged with Monodisperse Latex Aerosols 544 FARRANTS, George: Characterization of the Morphological Properties of Welding Fume Particles by Transmission Electron Microscopy and Digital Image Analysis FERRANTS, George: Characterization of the Morphological Properties of Welding Fume Particles by Transmission Electron Microscopy and Digital Image Analysis FERRANDS, Quintus: Reaction of Respirator Filters Challenged with Monodisperse Latex Aerosols 544 FERRANDO, Quintus: Reaction of Gallium Arsenide with Concentrated Acids: Formation of Arsine Dissolutions of Crystalline Gallium Arsenide with Concentrated Acids: Formation of Arsine 355 FILIPP, N.: Combustion Flask Procedure for the Preparation of Samples of Arsenic Collected on Filter Media 551 FIRCH, Gregory L.: Determination of the Oxide Layer Thickness on Beryllium Metal Particles 554 FIRST, Melvin W.: A New Method for Quantitative, In-Use Testing of Laboratory Fume Hoods 275 FIRTH, Matthew C.: Characterization of Carbon Molecular Sieves and Activated Charcoal for Use in Airborne Contaminant Sampling 181 FOURSIER, Helen W.: Investigation of Organic Aerosols Generated during Sugar Beet Slicing FOURSIER, Helen W.: The Response of the Pulmonary Surfactant-Associated Alkaline Phosphatase Following Acute Cadmium Chloride Inhalation 331 FRANCIS, M.: The Effect of Autocorrelation on the Estimation of Workers' Daily Exposures 532 GARRISON, Robert C.: Effects of Pressure-Demand Respirator Wear on Physiological and Perceptual Variables during Progressive Exercise to Maximal Levels 643 GARRISON, Robert C.: Effects of Pressure-Demand Respirator Wear on Physiological and Perceptual Variables during Progressive Exercise to Maximal Levels 644 GARRISON, Robert C.: Effects of Pressure-Demand Respirator Wear on Physiological and Perceptual Variables during Progressive Exercise to Maximal Leve		
FAIRFAX, Richard E.: Noise Abatement Techniques in Southern Pine Sawmills and Planer Mills FARRANTS, George: Characterization of the Morphological Properties of Welding Fume Particles by Transmission Electron Microscopy and Digital Image Analysis FELDSTEIN, M.L.: Collection Efficiency of Respirator Filters Challenged with Monodisperse Latex Aerosols FERGUSON, R.P.: Assessment of Respiratory Exposures during Gilsonite Mining and Milling Operations FERGUSON, R.P.: Assessment of Respiratory Exposures during Gilsonite Mining and Milling Operations FERGUSON, R.P.: Assessment of Respiratory Exposures during Gilsonite Mining and Milling Operations FERGUSON, R.P.: Assessment of Respiratory Exposures during Gilsonite Mining and Milling Operations 544 FERNANDO, Quintus: Reaction of Gallium Arsenide with Concentrated Acids: Formation of Arsine Dissolutions of Crystalline Gallium Arsenide with Concentrated Acids: Formation of Arsine Dissolutions of Crystalline Gallium Arsenide with Concentrated Acids: Formation of Arsine Dissolutions of Crystalline Gallium Arsenide with Concentrated Acids Formation of Arsine Dissolutions of Crystalline Gallium Arsenide with Concentrated Acids Formation of Arsine Dissolutions of Crystalline Gallium Arsenide with Concentrated Acids FINER, Melvin W.: A New Method for Quantitative, In-Use Testing of Laboratory Fume Hoods FIRST, Melvin W.: A New Method for Quantitative, In-Use Testing of Laboratory Fume Hoods FIRST, Melvin W.: A New Method for Quantitative, In-Use Testing of Laboratory Fume Hoods FIRST, Melvin W.: A New Method for Quantitative, In-Use Testing of Laboratory Fume Hoods FIRST, Melvin W.: A New Method for Quantitative, In-Use Testing of Laboratory Fume Hoods FIRST, Melvin W.: A New Method for Quantitative, In-Use Testing of Laboratory Fume Hoods FIRST, Melvin W.: A New Method for Quantitative, In-Use Testing of Laboratory Fume Hoods FIRST, Melvin W.: A New Method for Gallium Arsonation of Method Testing of Laboratory Fume Hoods FIRST, Melvin W.: A New Method for Gallium Arsonation		
FAIRFAX, Richard E.: Noise Abatement Techniques in Southern Pine Sawmills and Planer Mills FARRANTS, George: Characterization of the Morphological Properties of Welding Fume Particles by Transmission Electron Microscopy and Digital Image Analysis FELDSTEIN, M.L.: Collection Efficiency of Respirator Filters Challenged with Monodisperse Latex Aerosols FERGUSON, R.P.: Assessment of Respiratory Exposures during Gilsonite Mining and Milling Operations 544 FERGUSON, R.P.: Assessment of Respiratory Exposures during Gilsonite Mining and Milling Operations 545 FERNANDO, Quintus: Reaction of Gallium Arsenide with Concentrated Acids: Formation of Arsine Dissolutions of Crystalline Gallium Arsenide in Aqueous Solutions Containing Complexing Agents FILIPP, N.: Combuston Flask Procedure for the Preparation of Samples of Arsenic Collected on Filter Media 557 FILIPP, N.: Combuston Flask Procedure for the Preparation of Samples of Arsenic Collected on Filter Media 558 FIRST, Melvin W.: A New Method for Quantitative, In-Use Testing of Laboratory Fume Hoods 559 FIRST, Melvin W.: A New Method for Quantitative, In-Use Testing of Laboratory Fume Hoods 550 FIRST, Melvin W.: A New Method for Quantitative, In-Use Testing of Laboratory Fume Hoods 550 FIRST, Melvin W.: Investigation of Carbon Molecular Sieves and Activated Charcoal for Use in Airborne Contaminant Sampling 181 FOURSTER, Helen W.: Investigation of Organic Aerosols Generated during Sugar Beet Slicing 445 FOURSTER, Helen W.: Investigation of Organic Aerosols Generated during Sugar Beet Slicing 450 FOURSTER, Helen W.: Investigation of Organic Aerosols Generated during Sugar Beet Slicing 467 FOURSTER, Helen W.: Investigation of Trichloroethylene Vapor Degreasers 478 G GARG, Arun: An Evaluation of the Plumonary Surfactant-Associated Alkaline Phosphatase Following Acute Cadmium Chloride Inhalation 579 GARG, Arun: An Evaluation of the NIOSH Guidelines for Manual Lifting, with Special Reference to Horizontal Distance 589 GARRISON, Richard P.: Eval		
FAIRFAX, Richard E.: Noise Abatement Techniques in Southern Pine Sawmills and Planer Mills FARRANTS, George: Characterization of the Morphological Properties of Welding Fume Particles by Transmission Electron Microscopy and Digital Image Analysis FELDSTEIN, M.L.: Collection Efficiency of Respirator Filters Challenged with Monodisperse Latex Aerosols FERGUSON, R.P.: Assessment of Respiratory Exposures during Gilsonite Mining and Milling Operations 544 FERGUSON, R.P.: Assessment of Respiratory Exposures during Gilsonite Mining and Milling Operations 545 FERNANDO, Quintus: Reaction of Gallium Arsenide with Concentrated Acids: Formation of Arsine Dissolutions of Crystalline Gallium Arsenide in Aqueous Solutions Containing Complexing Agents FILIPP, N.: Combuston Flask Procedure for the Preparation of Samples of Arsenic Collected on Filter Media 557 FILIPP, N.: Combuston Flask Procedure for the Preparation of Samples of Arsenic Collected on Filter Media 558 FIRST, Melvin W.: A New Method for Quantitative, In-Use Testing of Laboratory Fume Hoods 559 FIRST, Melvin W.: A New Method for Quantitative, In-Use Testing of Laboratory Fume Hoods 550 FIRST, Melvin W.: A New Method for Quantitative, In-Use Testing of Laboratory Fume Hoods 550 FIRST, Melvin W.: Investigation of Carbon Molecular Sieves and Activated Charcoal for Use in Airborne Contaminant Sampling 181 FOURSTER, Helen W.: Investigation of Organic Aerosols Generated during Sugar Beet Slicing 445 FOURSTER, Helen W.: Investigation of Organic Aerosols Generated during Sugar Beet Slicing 450 FOURSTER, Helen W.: Investigation of Organic Aerosols Generated during Sugar Beet Slicing 467 FOURSTER, Helen W.: Investigation of Trichloroethylene Vapor Degreasers 478 G GARG, Arun: An Evaluation of the Plumonary Surfactant-Associated Alkaline Phosphatase Following Acute Cadmium Chloride Inhalation 579 GARG, Arun: An Evaluation of the NIOSH Guidelines for Manual Lifting, with Special Reference to Horizontal Distance 589 GARRISON, Richard P.: Eval		
FARRANTS, George: Characterization of the Morphological Properties of Welding Fume Particles by Transmission Electron Microscopy and Digital Image Analysis 473 FEIDSTEIN, M.L.: Collection Efficiency of Respirator Filters Challenged with Monodisperse Latex Aerosols 544 FERGUSON, R.P.: Assessment of Respiratory Exposures during Gilsonite Mining and Milling Operations 413 FERRANDO, Quintus: Reaction of Gallium Arsenide with Concentrated Acids: Formation of Arsine 379 Dissolutions of Crystalline Gallium Arsenide with Concentrated Acids: Formation of Arsine 379 Dissolutions of Crystalline Gallium Arsenide in Aqueous Solutions Containing Compiexing Agents 455 FILIPP, N.: Combustion Flask Procedure for the Preparation of Samples of Arsenic Collected on Filter Media 593 FINCH, Gregory L.: Determination of the Oxide Layer Thickness on Beryllium Metal Particles 556 FIRST, Melvin W.: A New Method for Quantitative, In-Use Testing of Laboratory Fume Hoods 275 FIRTH, Matthew C.: Characterization of Carbon Molecular Sieves and Activated Charcoal for Use in Airborne Contaminant Sampling 181 FLYNN, Michael R.: The Boundary Integral Equation Method (BIEM) for Modeling Local Exhaust Hood Flow Fields 281 FORSTER, Helen W.: Investigation of Organic Aerosols Generated during Sugar Beet Slicing 446 FOURNIER, M.: The Response of the Pulmonary Surfactant-Associated Alkaline Phosphatase Following Acute Cadmium Chloride Inhalation 333 FRANCIS, M.: The Effect of Autocorrelation on the Estimation of Workers' Daily Exposures 337 FRANKE, John E.: Emission Factors for Trichloroethylene Vapor Degreasers 496 G GARG, Arun: An Evaluation of the NIOSH Guidelines for Manual Lifting, with Special Reference to Horizontal Distance 286 GARRISON, Richard P.: Evaluation of Models for Local Exhaust Velocity Characteristics—Part One: Velocity Contours for Freestanding and Bounded Inlets 540 Freestanding and Bounded Inlets 540 Freestanding and Bounded Inlets 540 Foundation of Models for Local Exhaust Velocity Characteristics—Part Two: Velocity Gradients fo	F	
FARRANTS, George: Characterization of the Morphological Properties of Welding Fume Particles by Transmission Electron Microscopy and Digital Image Analysis 473 FEIDSTEIN, M.L.: Collection Efficiency of Respirator Filters Challenged with Monodisperse Latex Aerosols 544 FERGUSON, R.P.: Assessment of Respiratory Exposures during Gilsonite Mining and Milling Operations 413 FERRANDO, Quintus: Reaction of Gallium Arsenide with Concentrated Acids: Formation of Arsine 379 Dissolutions of Crystalline Gallium Arsenide with Concentrated Acids: Formation of Arsine 379 Dissolutions of Crystalline Gallium Arsenide in Aqueous Solutions Containing Compiexing Agents 455 FILIPP, N.: Combustion Flask Procedure for the Preparation of Samples of Arsenic Collected on Filter Media 593 FINCH, Gregory L.: Determination of the Oxide Layer Thickness on Beryllium Metal Particles 556 FIRST, Melvin W.: A New Method for Quantitative, In-Use Testing of Laboratory Fume Hoods 275 FIRTH, Matthew C.: Characterization of Carbon Molecular Sieves and Activated Charcoal for Use in Airborne Contaminant Sampling 181 FLYNN, Michael R.: The Boundary Integral Equation Method (BIEM) for Modeling Local Exhaust Hood Flow Fields 281 FORSTER, Helen W.: Investigation of Organic Aerosols Generated during Sugar Beet Slicing 446 FOURNIER, M.: The Response of the Pulmonary Surfactant-Associated Alkaline Phosphatase Following Acute Cadmium Chloride Inhalation 333 FRANCIS, M.: The Effect of Autocorrelation on the Estimation of Workers' Daily Exposures 337 FRANKE, John E.: Emission Factors for Trichloroethylene Vapor Degreasers 496 G GARG, Arun: An Evaluation of the NIOSH Guidelines for Manual Lifting, with Special Reference to Horizontal Distance 286 GARRISON, Richard P.: Evaluation of Models for Local Exhaust Velocity Characteristics—Part One: Velocity Contours for Freestanding and Bounded Inlets 540 Freestanding and Bounded Inlets 540 Freestanding and Bounded Inlets 540 Foundation of Models for Local Exhaust Velocity Characteristics—Part Two: Velocity Gradients fo	FAIRFAX. Richard E.: Noise Abatement Techniques in Southern Pine Sawmills and Planer Mills	634
FELDSTEIN, M.L.: Collection Efficiency of Respirator Filters Challenged with Monodisperse Latex Aerosols FERGUSON, R.P.: Assessment of Respiratory Exposures during Gilsonite Mining and Milling Operations FERNANDO, Quintus: Reaction of Gallium Arsenide with Concentrated Acids: Formation of Arsine Dissolutions of Crystalline Gallium Arsenide in Aqueous Solutions Containing Complexing Agents 455 FILIPP, N.: Combustion Flask Procedure for the Preparation of Samples of Arsenic Collected on Filter Media 593 FINCH, Gregory L.: Determination of the Oxide Layer Thickness on Beryllium Metal Particles 594 FIRST, Melvin W.: A New Method for Quantitative, In-Use Testing of Laboratory Fume Hoods FIRST, Melvin W.: A New Method for Quantitative, In-Use Testing of Laboratory Fume Hoods FIRST, Melvin W.: A New Method for Quantitative, In-Use Testing of Laboratory Fume Hoods FIRST, Melvin W.: A New Method for Quantitative, In-Use Testing of Laboratory Fume Hoods FIRST, Melvin W.: A New Method for Quantitative, In-Use Testing of Laboratory Fume Hoods FIRST, Melvin W.: A New Method for Quantitative, In-Use Testing of Laboratory Fume Hoods FIRST, Melvin W.: A New Method for Quantitative, In-Use Testing of Laboratory Fume Hoods 275 FIRST, Melvin W.: A New Method for Quantitative, In-Use Testing of Laboratory Fume Hoods 276 FIRST, Melvin W.: A New Method for Quantitative, In-Use Testing of Laboratory Fume Hoods 277 FIRST, Melvin W.: A New Method for Quantitative, In-Use Testing of Laboratory Fund Hoods 278 FORTER, Helen W.: Investigation of Organic Aerosols Generated during Sugar Beet Slicing 440 FOURNIER, M.: The Response of the Pulmonary Surfactant-Associated Alkaline Phosphatase Following Acute Cadmium Chloride Inhalation Chloride Inhalation Chloride Inhalation 379 FRANCIS, M.: The Effect of Autocorrelation on the Estimation of Workers' Daily Exposures 570 FRANCIS, M.: The Effect of Autocorrelation on the Estimation of Workers' Daily Exposures 571 FRANCIS, M.: The Effect of Autocorrelation on the E	FARRANTS George: Characterization of the Morphological Properties of Welding Fume Particles by Transmission Flectron Microscopy	
FERGUSON, R.P.: Assessment of Respiratory Exposures during Gilsonite Mining and Milling Operations 413 FERNANDO, Quintus: Reaction of Gallium Arsenide with Concentrated Acids: Formation of Arsine Dissolutions of Crystalline Gallium Arsenide in Aqueous Solutions Containing Complexing Agents FILIPP, N.: Combustion Flask Procedure for the Preparation of Samples of Arsenic Collected on Filter Media 553 FINCH, Gregory L.: Determination of the Oxide Layer Thickness on Beryllium Metal Particles 556 FIRST, Melvin W.: A New Method for Quantitative, In-Use Testing of Laboratory Fume Hoods 557 FIRST, Melvin W.: A New Method for Quantitative, In-Use Testing of Laboratory Fume Hoods 557 FIRST, Melvin W.: A New Method for Quantitative, In-Use Testing of Laboratory Fume Hoods 557 FIRST, Melvin W.: A New Method for Quantitative, In-Use Testing of Laboratory Fume Hoods 558 FIRST, Melvin W.: A New Method for Quantitative, In-Use Testing of Laboratory Fume Hoods 559 FIRST, Melvin W.: A New Method for Quantitative, In-Use Testing of Laboratory Fume Hoods 550 FIRST, Melvin W.: A New Method for Quantitative, In-Use Testing of Laboratory Fume Hoods 550 FIRST, Melvin W.: A New Method for Quantitative, In-Use Testing of Laboratory Fume Hoods 550 FIRST, Melvin W.: A New Method for Evaluation Method (BIEM) for Modeling Local Exhaust Hood Flow Fields 550 FIRST, Melvin W.: A New Method for Guantitative, In-Use Testing of Laboratory Fund Hoods 550 FIRST, Melvin W.: A New Method for Evaluation Method (BIEM) for Modeling Local Exhaust Hood Flow Fields 550 FIRST, Melvin W.: A New Method for Evaluation Method (BIEM) for Modeling Laboratory Testing 551 FIRST, Melvin W.: A New Method for Evaluating the Service Life of Organic Vapor Cartridges: Results of Laboratory Testing 552 FIRST, Melvin W.: A New Method for Evaluating the Service Life of Organic Vapor Cartridges: Results of Laboratory Testing 553 FIRST, Melvin W.: A New Method for Evaluating the Service Life of Organic Vapor Cartridges: Results of Laboratory Testing 554 FIRS		
FERNANDO, Quintus: Reaction of Gallium Arsenide with Concentrated Acids: Formation of Arsine Dissolutions of Crystalline Gallium Arsenide in Aqueous Solutions Containing Complexing Agents 455 FILIPP, N.: Combustion Flask Procedure for the Preparation of Samples of Arsenic Collected on Filter Media FINCH, Gregory L.: Determination of the Oxide Layer Thickness on Beryllium Metal Particles FIRST, Melvin W.: A New Method for Quantitative, In-Use Testing of Laboratory Fume Hoods FIRST, Melvin W.: A New Method for Quantitative, In-Use Testing of Laboratory Fume Hoods FIRTH, Matthew C.: Characterization of Carbon Molecular Sieves and Activated Charcoal for Use in Airborne Contaminant Sampling FILYNN, Michael R.: The Boundary Integral Equation Method (BIEM) for Modeling Local Exhaust Hood Flow Fields FORSTER, Helen W.: Investigation of Organic Aerosols Generated during Sugar Beet Slicing FOURNIER, M.: The Response of the Pulmonary Surfactant-Associated Alkaline Phosphatase Following Acute Cadmium Chloride Inhalation GRANCIS, M.: The Effect of Autocorrelation on the Estimation of Workers' Daily Exposures G GARG, Arun: An Evaluation of the NIOSH Guidelines for Manual Lifting, with Special Reference to Horizontal Distance FORMON, Robert C.: Effects of Pressure-Demand Respirator Wear on Physiological and Perceptual Variables during Progressive Exercise to Maximal Levels GARMON, Robert C.: Effects of Pressure-Demand Respirator Wear on Physiological and Perceptual Variables during Progressive Exercise to Maximal Levels GARMON, Richard P.: Evaluation of Models for Local Exhaust Velocity Characteristics—Part One: Velocity Contours for Freestanding and Bounded Inlets Evaluation of Models for Local Exhaust Velocity Characteristics—Part One: Velocity Contours for Freestanding and Bounded Inlets Evaluation of Models for Local Exhaust Velocity Characteristics—Part One: Velocity Contours for Freestanding and Bounded Inlets Evaluation of Models for Local Exhaust Velocity Characteristics—Part Two: Velocity Gradients for an Inle		
Dissolutions of Crystalline Gallium Arsenide in Aqueous Solutions Containing Complexing Agents FILIPP, N.: Combustion Flask Procedure for the Preparation of Samples of Arsenic Collected on Filter Media 593 FINCH, Gregory L.: Determination of the Oxide Layer Thickness on Beryllium Metal Particles FIRST, Melvin W.: A New Method for Quantitative, In-Use Testing of Laboratory Fume Hoods FIRTH, Matthew C.: Characterization of Carbon Molecular Sieves and Activated Charcoal for Use in Airborne Contaminant Sampling FIRTH, Matthew C.: Characterization of Carbon Molecular Sieves and Activated Charcoal for Use in Airborne Contaminant Sampling FIRTH, Mithew C.: Characterization of Organic Aerosols Generated during Sugar Beet Slicing FOURNIER, M.: The Boundary Integral Equation Method (BIEM) for Modeling Local Exhaust Hood Flow Fields FOURNIER, M.: The Response of the Pulmonary Surfactant-Associated Alkaline Phosphatase Following Acute Cadmium Chloride Inhalation FRANCIS, M. The Effect of Autocorrelation on the Estimation of Workers' Daily Exposures GARG, Arun: An Evaluation of the NIOSH Guidelines for Manual Lifting, with Special Reference to Horizontal Distance GARMON, Robert C.: Effects of Pressure-Demand Respirator Wear on Physiological and Perceptual Variables during Progressive Exercise to Maximal Levels GARRISON, Richard P.: Evaluation of Models for Local Exhaust Velocity Characteristics—Part One: Velocity Contours for Freestanding and Bounded Inlets Evaluation of Models for Local Exhaust Velocity Characteristics—Part One: Velocity Gradients for an Inlet near a Boundary Surface Development of a Field Method for Evaluating the Service Life of Organic Vapor Cartridges: Results of Laboratory Testing Using Carbon Tetrachloride 486		
FINCH, Gregory L.: Determination of the Oxide Layer Thickness on Beryllium Metal Particles	Dissolutions of Crystalline Gallium Arsenide in Aqueous Solutions Containing Complexing Agents	455
FIRST, Melvin W.: A New Method for Quantitative, In-Use Testing of Laboratory Fume Hoods FIRTH, Matthew C.: Characterization of Carbon Molecular Sieves and Activated Charcoal for Use in Airborne Contaminant Sampling FLYNN, Michael R.: The Boundary Integral Equation Method (BIEM) for Modeling Local Exhaust Hood Flow Fields FORSTER, Helen W.: Investigation of Organic Aerosols Generated during Sugar Beet Slicing FOURNIER, M.: The Response of the Pulmonary Surfactant-Associated Alkaline Phosphatase Following Acute Cadmium Chloride Inhalation Chloride Inhalation FRANCIS, M.: The Effect of Autocorrelation on the Estimation of Workers' Daily Exposures FRANKE, John E.: Emission Factors for Trichloroethylene Vapor Degreasers 496 G GARG, Arun: An Evaluation of the NIOSH Guidelines for Manual Lifting, with Special Reference to Horizontal Distance Exercise to Maximal Levels GARNISON, Richard P.: Evaluation of Models for Local Exhaust Velocity Characteristics—Part One: Velocity Contours for Freestanding and Bounded Inlets Evaluation of Models for Local Exhaust Velocity Characteristics—Part Two: Velocity Gradients for an Inlet near a Boundary Surface Development of a Field Method for Evaluating the Service Life of Organic Vapor Cartridges: Results of Laboratory Testing Using Carbon Tetrachloride 486		
FIRTH, Matthew C.: Characterization of Carbon Molecular Sieves and Activated Charcoal for Use in Airborne Contaminant Sampling FLYNN, Michael R.: The Boundary Integral Equation Method (BIEM) for Modeling Local Exhaust Hood Flow Fields 281 FORSTER, Helen W.: Investigation of Organic Aerosols Generated during Sugar Beet Slicing 44 FOURNIER, M.: The Response of the Pulmonary Surfactant-Associated Alkaline Phosphatase Following Acute Cadmium Chloride Inhalation Chloride Inhalation 331 FRANCIS, M.: The Effect of Autocorrelation on the Estimation of Workers' Daily Exposures 337 FRANKE, John E.: Emission Factors for Trichloroethylene Vapor Degreasers 438 GARG, Arun: An Evaluation of the NIOSH Guidelines for Manual Lifting, with Special Reference to Horizontal Distance GARMON, Robert C.: Effects of Pressure-Demand Respirator Wear on Physiological and Perceptual Variables during Progressive Exercise to Maximal Levels GARRISON, Richard P.: Evaluation of Models for Local Exhaust Velocity Characteristics—Part One: Velocity Contours for Freestanding and Bounded Inlets Evaluation of Models for Local Exhaust Velocity Characteristics—Part Two: Velocity Gradients for an Inlet near a Boundary Surface Development of a Field Method for Evaluating the Service Life of Organic Vapor Cartridges: Results of Laboratory Testing Using Carbon Tetrachloride 488		
FLYNN, Michael R.: The Boundary Integral Equation Method (BIEM) for Modeling Local Exhaust Hood Flow Fields FORSTER, Helen W.: Investigation of Organic Aerosols Generated during Sugar Beet Slicing 44 FOURNIER, M.: The Response of the Pulmonary Surfactant-Associated Alkaline Phosphatase Following Acute Cadmium Chloride Inhalation Chloride Inhalation RANCIS, M.: The Effect of Autocorrelation on the Estimation of Workers' Daily Exposures 33 FRANCIS, M.: The Effect of Autocorrelation on the Estimation of Workers' Daily Exposures 34 G G GARG, Arun: An Evaluation of the NIOSH Guidelines for Manual Lifting, with Special Reference to Horizontal Distance Exercise to Maximal Levels GARNISON, Richard P.: Evaluation of Models for Local Exhaust Velocity Characteristics—Part One: Velocity Contours for Freestanding and Bounded Inlets Evaluation of Models for Local Exhaust Velocity Characteristics—Part Two: Velocity Gradients for an Inlet near a Boundary Surface Development of a Field Method for Evaluating the Service Life of Organic Vapor Cartridges: Results of Laboratory Testing Using Carbon Tetrachloride 486		
FORSTER, Helen W.: Investigation of Organic Aerosols Generated during Sugar Beet Slicing FOURNIER, M.: The Response of the Pulmonary Surfactant-Associated Alkaline Phosphatase Following Acute Cadmium Chloride Inhalation RANCIS, M.: The Effect of Autocorrelation on the Estimation of Workers' Daily Exposures FRANKE, John E.: Emission Factors for Trichloroethylene Vapor Degreasers G GARG, Arun: An Evaluation of the NIOSH Guidelines for Manual Lifting, with Special Reference to Horizontal Distance GARMON, Robert C.: Effects of Pressure-Demand Respirator Wear on Physiological and Perceptual Variables during Progressive Exercise to Maximal Levels GARRISON, Richard P.: Evaluation of Models for Local Exhaust Velocity Characteristics—Part One: Velocity Contours for Freestanding and Bounded Inlets Evaluation of Models for Local Exhaust Velocity Characteristics—Part Two: Velocity Gradients for an Inlet near a Boundary Surface Development of a Field Method for Evaluating the Service Life of Organic Vapor Cartridges: Results of Laboratory Testing Using Carbon Tetrachloride 486		
FOURNIER, M.: The Response of the Pulmonary Surfactant-Associated Alkaline Phosphatase Following Acute Cadmium Chloride Inhalation FRANCIS, M.: The Effect of Autocorrelation on the Estimation of Workers' Daily Exposures 33 FRANKE, John E.: Emission Factors for Trichloroethylene Vapor Degreasers 496 GARG, Arun: An Evaluation of the NIOSH Guidelines for Manual Lifting, with Special Reference to Horizontal Distance GARMON, Robert C.: Effects of Pressure-Demand Respirator Wear on Physiological and Perceptual Variables during Progressive Exercise to Maximal Levels GARRISON, Richard P.: Evaluation of Models for Local Exhaust Velocity Characteristics—Part One: Velocity Contours for Freestanding and Bounded Inlets Evaluation of Models for Local Exhaust Velocity Characteristics—Part Two: Velocity Gradients for an Inlet near a Boundary Surface Development of a Field Method for Evaluating the Service Life of Organic Vapor Cartridges: Results of Laboratory Testing Using Carbon Tetrachloride 486		
FRANCIS, M.: The Effect of Autocorrelation on the Estimation of Workers' Daily Exposures	FOLIPNIED M - The Reconnes of the Pulmonary Surfactant Associated Alkaline Phoenhatese Following Acute Cadmium	
GARG, Arun: An Evaluation of the NIOSH Guidelines for Manual Lifting, with Special Reference to Horizontal Distance GARMON, Robert C.: Effects of Pressure-Demand Respirator Wear on Physiological and Perceptual Variables during Progressive Exercise to Maximal Levels GARRISON, Richard P.: Evaluation of Models for Local Exhaust Velocity Characteristics—Part One: Velocity Contours for Freestanding and Bounded Inlets Evaluation of Models for Local Exhaust Velocity Characteristics—Part Two: Velocity Gradients for an Inlet near a Boundary Surface Development of a Field Method for Evaluating the Service Life of Organic Vapor Cartridges: Results of Laboratory Testing Using Carbon Tetrachloride 486		
GARG, Arun: An Evaluation of the NIOSH Guidelines for Manual Lifting, with Special Reference to Horizontal Distance GARMON, Robert C.: Effects of Pressure-Demand Respirator Wear on Physiological and Perceptual Variables during Progressive Exercise to Maximal Levels GARRISON, Richard P.: Evaluation of Models for Local Exhaust Velocity Characteristics—Part One: Velocity Contours for Freestanding and Bounded Inlets Evaluation of Models for Local Exhaust Velocity Characteristics—Part Two: Velocity Gradients for an Inlet near a Boundary Surface Development of a Field Method for Evaluating the Service Life of Organic Vapor Cartridges: Results of Laboratory Testing Using Carbon Tetrachloride 486		
GARG, Arun: An Evaluation of the NIOSH Guidelines for Manual Lifting, with Special Reference to Horizontal Distance GARMON, Robert C.: Effects of Pressure-Demand Respirator Wear on Physiological and Perceptual Variables during Progressive Exercise to Maximal Levels GARRISON, Richard P.: Evaluation of Models for Local Exhaust Velocity Characteristics—Part One: Velocity Contours for Freestanding and Bounded Inlets Evaluation of Models for Local Exhaust Velocity Characteristics—Part Two: Velocity Gradients for an Inlet near a Boundary Surface Development of a Field Method for Evaluating the Service Life of Organic Vapor Cartridges: Results of Laboratory Testing Using Carbon Tetrachloride 48	FRANKE, John E.: Emission Factors for Inchioroethylene vapor Degreasers	430
GARG, Arun: An Evaluation of the NIOSH Guidelines for Manual Lifting, with Special Reference to Horizontal Distance GARMON, Robert C.: Effects of Pressure-Demand Respirator Wear on Physiological and Perceptual Variables during Progressive Exercise to Maximal Levels GARRISON, Richard P.: Evaluation of Models for Local Exhaust Velocity Characteristics—Part One: Velocity Contours for Freestanding and Bounded Inlets Evaluation of Models for Local Exhaust Velocity Characteristics—Part Two: Velocity Gradients for an Inlet near a Boundary Surface Development of a Field Method for Evaluating the Service Life of Organic Vapor Cartridges: Results of Laboratory Testing Using Carbon Tetrachloride 48	G	
GARMON, Robert C.: Effects of Pressure-Demand Respirator Wear on Physiological and Perceptual Variables during Progressive Exercise to Maximal Levels		157
GARRISON, Richard P.: Evaluation of Models for Local Exhaust Velocity Characteristics—Part One: Velocity Contours for Freestanding and Bounded Inlets Evaluation of Models for Local Exhaust Velocity Characteristics—Part Two: Velocity Gradients for an Inlet near a Boundary Surface Development of a Field Method for Evaluating the Service Life of Organic Vapor Cartridges: Results of Laboratory Testing Using Carbon Tetrachloride 486	GARMON Robert C - Effects of Pressure Demand Respirator Wear on Physiological and Percentual Variables during Progressive	
Freestanding and Bounded Inlets Evaluation of Models for Local Exhaust Velocity Characteristics—Part Two: Velocity Gradients for an Inlet near a Boundary Surface Development of a Field Method for Evaluating the Service Life of Organic Vapor Cartridges: Results of Laboratory Testing Using Carbon Tetrachloride 486	GARRISON, Richard P.: Evaluation of Models for Local Exhaust Velocity Characteristics—Part One: Velocity Contours for	
Development of a Field Method for Evaluating the Service Life of Organic Vapor Cartridges: Results of Laboratory Testing Using Carbon Tetrachloride	Freestanding and Bounded Inlets	196
	Development of a Field Method for Evaluating the Service Life of Organic Vapor Cartridges: Results of Laboratory Testing	

AUPTRI A. M. A' A A A' A A A A' A A A A' A A A A A	
GHEZZI, I.: Medical Monitoring of Dioxin Clean-Up Workers GLASER, Robert A.: Investigation of Charcoal Cloth as a Sorbent for Integrated Sampling of Solvent Vapors in Mixed-Expired Breath	
Using a New Stainless Steel Sampler COTTESFEID Parry: Evaluating Strategies for Collecting and Analyzing Bulk Samples: A Case Study of an Ashestos Hazard Emergency	
Response Act (AHERA) Building Inspection	-428
GRELINGER, Mary Ann: An Apparatus and Methodology for Predicting the Dustiness of Materials Dust Inhalation Exposures from the Handling of Small Volumes of Powders	123 131
GRENELL, James F.: An Exploratory Study of Moderate Physical Activity and Selected Design Attribute Effects on Earmuff Attenuation	480
GRENIER, M.G.: Reduction of Airborne Radioactive Dust by Means of a Charged Water Spray	336
GRENIER, Michel G.: Characterization of the Charge Distribution of Airborne Dust in Canadian Uranium and Non-Uranium Mines	383
GROSJEAN, Roger: A Device for Solvent Description of Volatile Organic Compounds from Activated Charcoal	
GUPTA, Brahma N.: Respiratory Health Effects from Occupational Exposure to Wood Dust in Sawmills	
GWOSDOW, A.R.: Effect of Thermal Conditions on the Acceptability of Respiratory Protective Devices on Humans at Rest	
н	
HAFLIDSON, W.O.: Assessment of Isocyanate Exposure during the Spray Application of Polyurethane Foam	
HAMANN, Martin E.: An Air Sampling Collection Apparatus for High Resolution Air Analysis	
HAMMAD, Yehia Y.: A Diffusive Sampler for Personal Monitoring of Toluene Diisocyanate (TDI) Exposure; Part I: Design of the Dosimeter A Diffusive Sampler for Personal Monitoring of Toluene Diisocyanate (TDI) Exposure, Part II: Laboratory and Field Evaluation of the Dosimeter	
HAMMOND, S. Katharine: Current Nitrogen Dioxide Exposures among Railroad Workers	246
HANKINSON, John L.: Workplace Measurement of Respirator Effects Using Respiratory Inductive Plethysmography	
HARBER, Philip: Noninvasive Measurement of Respirator Effects Using Respiratory Inductive Pietnysmography HARBER, Philip: Noninvasive Measurement of Respirator Effect at Rest and during Exercise	
HARDY, James K.: Effect of Glove Material Thickness on Permeation Characteristics	
HARVILLE, Jerome: Permeation of a 2,4-D Isooctyl Ester Formulation through Neoprene, Nitrile, and Tyvek® Protection Materials HECKER, Lawrence H.: Field Validation of Passive Dosimeters for the Determination of Employee Exposures to Ethylene Oxide in Hospital	438
Product Sterilization Facilities Product Sterilization Facilities	30
HEEDERIK, Dick: Enumeration of Viable Fungi in Occupational Environments: A Comparison of Samplers and Media	
HELSEN, J.A.: Surface Characteristics of Asbestos Fibers Released from Asbestos-Cement Products	
HENRY, Norman W., III: The Use of Detector Tubes Following ASTM Method F-739-85 for Measuring Permeation Resistance of Clothing	
HERGET, William F.: A Preliminary Evaluation of the Fourier Transform Infrared (FTIR) Spectrometer as a Quantitative Air Monitor for Semiconductor Manufacturing Process Emissions	
Fourier Transform Infrared (FTIR) Spectroscopy for Monitoring Airborne Gases and Vapors of Industrial Hygiene Concern	354
HOBBS, Charles H.: Surface Area, Adsorption, and Desorption Studies on Indoor Dust Samples	
HODOUS, Thomas K.: Physiological and Subjective Responses to Working in Disposable Protective Coveralls and Respirators Commonly Used by the Asbestos Abatement Industry	
Workplace Measurement of Respirator Effects Using Respiratory Inductive Plethysmography	372
HOLNESS, D. Linn: Acute and Chronic Respiratory Effects of Occupational Exposure to Ammonia	646
HOOVER, Mark D.: Determination of the Oxide Layer Thickness on Beryllium Metal Particles	
HORI, Hajime: Thermal Desorption Efficiencies of Two-Component Organic Solvents from Activated Carbon	24
WIDNALL Ludith R - Physiological and Subjective Responses to Warking in Disposable Protective Coveralls and Respirators Commonly	
Used by the Asbestos Abatement Industry	313
HUGHES, Robert T.: Finite Difference Methods for Computation of Flow into Local Exhaust Hoods	
HUSAIN, Tanveer: Respiratory Health Effects from Occupational Exposure to Wood Dust in Sawmills	574
I and the second	
INGALLS, Theodore H.: A Case-Control Study of Circulatory, Malignant, and Respiratory Morbidity in Carbon Black Workers in the	
United States	510
IVANY, Raymond E.: A New Method for Quantitative, In-Use Testing of Laboratory Fume Hoods	
J	
JACKSON, Allen W.: Effects of Pressure-Demand Respirator Wear on Physiological and Perceptual Variables during Progressive Exercise to Maximal Levels Alterations in Physiological and Perceptual Variables during Exhaustive Endurance Work while Wearing a Pressure-Demand Respirator	139
JACKSON, Richard J.: Health Symptoms and Occupational Exposure to Flea Control Products among California Pet Handlers	
JANKO, Marija: Occupational Exposure and Analysis of Microcrystalline Cristobalite in Mullite Operations	
JENCEN, David A.: Effect of Glove Material Thickness on Permeation Characteristics	
JOHNSEN, Bjørn Arne: Penetration of Permeable Chemical Protective Clothing by Drops under Pressure Loads: Repellent and Wicking Fabrics	
JOHNSON, David L.: Aerosol Characterization with Centrifugal Aerosol Spectrometers: Theory and Experiment	
JOHNSTON, Alan R.: Ozone Removal Capability of a Welding Fume Respirator Containing Activated Charcoal	45
JONES, S. Bart: Hexamethylenetetramine: A Review	
JÖNSSON, J.Å: The Efficiency of Air Pollutant Sampling by Midget Impingers with Amines as Model Compounds	535

· ·	
KALLIOKOSKI, Pentti: Fungi Carried from Farmers' Work into Farm Homes	631
KANGAS, J.: Ammonia in Finnish Poultry Houses: Effects of Litter on Ammonia Levels and Their Reduction by Technical Binding Agents KARLSEN, Jan: Characterization of the Morphological Properties of Welding Fume Particles by Transmission Electron Microscopy	210
and Digital Image Analysis KARUHN, R.: Particle Penetration through Sampling Prefilters Illustrates the Analysis Error in NIOSH-Type Procedures for	
Nickel Carbonyl KEIMIG, D.G.: Assessment of Respiratory Exposures during Gilsonite Mining and Milling Operations	-665
KELLY, B.M.: Solvent Vapor Transfer across an Enthalpy Energy System	
KELSE, John W.: The Regulatory and Mineralogical Definitions of Asbestos and Their Impact on Amphibole Dust Analysis	
KENT, Richard F.: An Apparatus and Methodology for Predicting the Dustiness of Materials	
KETNER, Phillip: Subjective Worker Assessments of Hand Tools Used in Automobile Assembly	639
KEYSERLING, W. Monroe: Analysis of Manual Lifting Tasks: A Qualitative Alternative to the NIOSH Work Practices Guide	165
KIZER, Kenneth W.: Problems Associated with the Use of Immediately Dangerous to Life and Health (IDLH) Values for Estimating	
the Hazard of Accidental Chemical Releases KNIGHT, G.: X-Ray Diffraction Analysis of Mine Airborne Dust—An Interference Problem at Hemlo Gold Mines	
KNIGHT, V. Blake: Risk Assessment of Dermal Exposure to Polychlorinated Biphenyls Permeating a Polyvinyl Chloride Glove	
KRZYSTYNIAK, K.: The Response of the Pulmonary Surfactant-Associated Alkaline Phosphatase Following Acute Cadmium	
Chloride Inhalation	
KUCZOMOW, A.: Surface Characteristics of Asbestos Fibers Released from Asbestos-Cement Products	
KULLMAN, G.J.: Assessment of Respiratory Exposures during Gilsonite Mining and Milling Operations	413
L	
LACEY, J.: Investigation of Organic Aerosols Generated during Sugar Beet Slicing	44
LANDERSJÖ, Lars: Permeation of Neoprene Protective Gloves by Acetone: Comparison of Three Different Permeation Cells in an Open-Loop System	554
LANGÄRD, Sverre: Characterization of the Morphological Properties of Welding Fume Particles by Transmission Electron Microscopy and Digital Image Analysis	473
LENGERICH, Stan K.: Near Real-Time Monitoring of Potential Dermal Exposure during Backpack Herbicide Spraying	
LENGERICH, Stanley K.: Performance Characteristics of Control Devices to Maintain Constant Face Velocity for Laboratory Exhaust Hoods	501
LEVIN, S.: Particle Penetration through Sampling Prefilters Illustrates the Analysis Error in NIOSH-Type Procedures for Nickel Carbonyl	A-665
LEVINE Steven P : The Limits of Detection for the Monitoring of Semiconductor Manufacturing Gas and Vanor Emissions by Fourier	
Transform Infrared (FTIR) Spectroscopy A Preliminary Evaluation of the Fourier Transform Infrared (FTIR) Spectrometer as a Quantitative Air Monitor for Semiconductor	
Manufacturing Process Emissions	. 70
Fourier Transform Infrared (FTIR) Spectroscopy for Monitoring Airborne Gases and Vapors of Industrial Hygiene Concern Evaluation of the Applicability of Fourier Transform Infrared (FTIR) Spectroscopy for Quantitation of the Components of Airborne Solvent Vapors in Air	
LEW. Myron: Noninvasive Measurement of Respirator Effect at Rest and during Exercise	
LI-SHI, Ying: Fourier Transform Infrared (FTIR) Spectroscopy for Monitoring Airborne Gases and Vapors of Industrial Hygiene Concern	. 354
Airborne Solvent Vapors in Air LINNAINMAA, M.: Ammonia in Finnish Poultry Houses: Effects of Litter on Ammonia Levels and Their Reduction by	
Technical Binding Agents	. 210
LIPSETT, Michael J.: Problems Associated with the Use of Immediately Dangerous to Life and Health (IDLH) Values for Estimating the Hazard of Accidental Chemical Releases	. 598
10 Francis R - Riological Monitoring of Toxic Metals in Uring by Simultaneous Inductively Counted Plasma Atomic	
Emission Spectrometry	. 245
M	
MACHER, Janet M.: Positive-Hole Correction of Multiple-Jet Impactors for Collecting Viable Microorganisms	. 561
MAHONEY, Richard J.: Finding a Balance: Technology and Public Safety	A-688
MAILLIE, H. David: A Graphical Method to Determine the Uptake of Nuclides by Workers	. 95
MANNINEN, A.: Ammonia in Finnish Poultry Houses: Effects of Litter on Ammonia Levels and Their Reduction by Technical Binding Agents	210
MAROLDO, Stephen G.: Characterization of Carbon Molecular Sieves and Activated Charcoal for Use in Airborne Contaminant Sampling	. 181
MARTONEN, Ted B.: Aerosol Characterization with Centrifugal Aerosol Spectrometers: Theory and Experiment	
MASHIKO, Mari: Biological Monitoring of Arsenic Exposure of Gallium Arsenide and Inorganic Arsenic-Exposed Workers by Determination of Inorganic Arsenic and Its Metabolites in Urine and Hair	. 606
MATHIASSON, L.: The Efficiency of Air Pollutant Sampling by Midget Impingers with Amines as Model Compounds	. 535
MATHUR, Neeraj: Respiratory Health Effects from Occupational Exposure to Wood Dust in Sawmills	. 574
McCRAE, Roberta E.: Occupational Exposure and Analysis of Microcrystalline Cristobalite in Mullite Operations	
McCURRY, James D.: Evaluation of Desorption Efficiency Determination Methods for Acetone	
McFARLAND, A.R.: Particle Deposition in Aerosol Sampling Lines Caused by Turbulent Diffusion and Gravitational Settling McVITTIE, D.J.: Assessment of Isocyanate Exposure during the Spray Application of Polyurethane Foam	. 30/
INCVITTE, D.J.: Assessment of isocyanate exposure during the Spray Application of Polyurethane Foam	. 303

MELLSTRÖM, Guhn Anita: Permeation of Neoprene Protective Gloves by Acetone: Comparison of Three Different Permeation Cells in
an Open-Loop System 554 MERLO, F.: Medical Monitoring of Dioxin Clean-Up Workers 586
MICHALKO, Paul M.: The Removal of Benzene Impurity from Carbon Disulfide with a Molecular Sieve for Industrial Hygiene Purposes
MILLER, Cass T.: The Boundary Integral Equation Method (BIEM) for Modeling Local Exhaust Hood Flow Fields
MINTZ, Benjamin W.: Disorder and Early Sorrow in the OSHA Program A-96
MIRER, Franklin E., Ph.D.: Worker Participation in Health and Safety: Lessons from Joint Programs in the American Automobile Industry
MITCHELL, Kimberly M.: Evaluation of Desorption Efficiency Determination Methods for Acetone
MORGAN, J.M.: Combustion Flask Procedure for the Preparation of Samples of Arsenic Collected on Filter Media
MORGAN, W.K.C.: On Welding, Wheezing, and Whimsy
MORGAN, William P.: Effects of Pressure-Demand Respirator Wear on Physiological and Perceptual Variables during Progressive Exercise to Maximal Levels
Alterations in Physiological and Perceptual Variables during Exhaustive Endurance Work while Wearing a Pressure-Demand Respirator Filters 139
MOSS, C. Eugene: Optical Radiation Hazards of Laser Welding Processes Part II: CO ₂ Laser
MOYER, Ernest S.: A Review of the Wheeler Equation and Comparison of Its Applications to Organic Vapor Respirator Cartridge Breakthrough Data "Worst Case" Aerosol Testing Parameters: I. Sodium Chloride and Dioctyl Phthalate Aerosol Filter Efficiency as a Function of
Worst Case® Aerosol Testing Parameters: I. Sodium Chloride and Dioctyl Phthalate Aerosol Filter Efficiency as a Function of
Particle Size and Flow Rate
"Worst Case" Aerosol Testing Parameters: II. Efficiency Dependence of Commercial Respirator Filters on Humidity Pretreatment
Unloaded Respirator Filter
MYOJO, Toshihiko: Breathing Pattern Simulation Using Slit/Cam Valve 240
N
NADEAU, D.: The Response of the Pulmonary Surfactant-Associated Alkaline Phosphatase Following Acute Cadmium Chloride Inhalation
NAGY, Paul A.: Surface Area, Adsorption, and Desorption Studies on Indoor Dust Samples
NEBESNY, Kenneth W.: Dissolution of Crystalline Gallium Arsenide in Aqueous Solutions Containing Complexing Agents
NETHERCOTT, James R.: Acute and Chronic Respiratory Effects of Occupational Exposure to Ammonia
NIELSEN, R.: Effect of Thermal Conditions on the Acceptability of Respiratory Protective Devices on Humans at Rest
0
O'DONNELL, James F.: Occupational Exposure and Analysis of Microcrystalline Cristobalite in Mullite Operations
P
PANG, Thomas W.S.: An Improved Membrane Filter Technique for Evaluation of Asbestos Fibers
PARK, Chulhong: Evaluation of Models for Local Exhaust Velocity Characteristics—Part One: Velocity Contours for Freestanding and Bounded Inlets
Evaluation of Models for Local Exhaust Velocity Characteristics—Part Two: Velocity Gradients for an Inlet near a Boundary Surface 204
PASANEN, Anna-Liisa: Fungi Carried from Farmers' Work into Farm Homes
PASANEN, Pertti: Fungi Carried from Farmers' Work into Farm Homes
PATEL, Kishore: An Improved Membrane Filter Technique for Evaluation of Asbestos Fibers
PAWELCZYK, J.: Physical Performance during Combinations of Hypercapnic, Resistive, and Hot Air Breathing
PENDERGRASS, John A.: Industrial Hygiene, Government, and Industry
PERKINS, Jimmy L.: Risk Assessment of Dermal Exposure to Polychlorinated Biphenyls Permeating a Polyvinyl Chloride Glove
PICKRELL, John A.: Surface Area, Adsorption, and Desorption Studies on Indoor Dust Samples
PIERSON, Bruce: Dissolution of Crystalline Gallium Arsenide in Aqueous Solutions Containing Complexing Agents
PFÄFFLI, Pirkko: Measurement of Depolymerization Products in the Polyacetal, Polyamide, and Polymethylmethacrylate Processing Industry
PLATTS, B.W.: Investigation of Organic Aerosols Generated during Sugar Beet Slicing 44
POPENDORF, William: A Method for Monitoring Dermal Exposure to Volatile Chemicals
PUNNETT, Laura: Subjective Worker Assessments of Hand Tools Used in Automobile Assembly
PURDHAM, James T.: Acute and Chronic Respiratory Effects of Occupational Exposure to Ammonia
PUSKAR, Mark A.: Field Validation of Passive Dosimeters for the Determination of Employee Exposures to Ethylene Oxide in Hospital Product Sterilization Facilities 30
Q
QUE HEE, Shane S.: Permeation of a 2,4-D Isooctyl Ester Formulation through Neoprene, Nitrile, and Tyvek® Protection Materials
QUENON, Susan G.: Health Symptoms and Occupational Exposure to Flea Control Products among California Pet Handlers
QUINN, William E.: Using Flow-Limiting Restrictors
R
RABIAH, Talal M.: Performance Characteristics of Control Devices to Maintain Constant Face Velocity for Laboratory Exhaust Hoods

RAMSEY, Jerry D.: Evaluation of a Prototype Microclimate Cooling System	
RANDO, Roy J.: A Diffusive Sampler for Personal Monitoring of Toluene Diisocyanate (TDI) Exposure; Part I: Design of the Dosimeter A Diffusive Sampler for Personal Monitoring of Toluene Diisocyanate (TDI) Exposure, Part II: Laboratory and Field Evaluation of the Dosimeter	_
RAPPAPORT, S.: The Effect of Autocorrelation on the Estimation of Workers' Daily Exposures	
RAPPAPORT, S.M.: A Note on the Estimation of the Mean Value from a Lognormal Distribution	697
RASTOGI, Subodh K.: Respiratory Health Effects from Occupational Exposure to Wood Dust in Sawmills	574
RAVEN, P.B.: Clinical Pulmonary Function Tests as Predictors of Work Performance during Respirator Wear	51
RAVEN, Peter B.: Alterations in Physiological and Perceptual Variables during Exhaustive Endurance Work while Wearing a Pressure-Demand Respirator	. 139
Effects of Pressure-Demand Respirator Wear on Physiological and Perceptual Variables during Progressive Exercise to Maximal Levels	. 85
REITH, Albrecht: Characterization of the Morphological Properties of Welding Fume Particles by Transmission Electron Microscopy and Digital Image Analysis	
ROBERTSON, James McD.: A Case-Control Study of Circulatory, Malignant, and Respiratory Morbidity in Carbon Black Workers in the United States	. 510
ROBINSON, Douglas: Acute Inhalation Toxicity of Furan, 2-Methyl Furan, Furfuryl Alcohol, and Furfural in the Rat	A-359
ROCKWELL, R. James, Jr.: Optical Radiation Hazards of Laser Welding Processes Part II: CO ₂ Laser	
ROHM, T.J.: Combustion Flask Procedure for the Preparation of Samples of Arsenic Collected on Filter Media	
ROSENBERG, Jon: Health Symptoms and Occupational Exposure to Flea Control Products among California Pet Handlers	
ROSENTHAL, Isadore: Managing Industrial Hygiene in an Imperfect World	A-438
ROTHENBERG, Simon J.: Determination of the Oxide Layer Thickness on Beryllium Metal Particles Surface Area, Adsorption, and Desorption Studies on Indoor Dust Samples	. 550 . 15
S	
SALMI, Tuula: Fungi Carried from Farmers' Work into Farm Homes	
SARNER, Stanley F.: The Use of Detector Tubes Following ASTM Method F-739-85 for Measuring Permeation Resistance of Clothing	. 298
SAUPE, K.: Physical Performance during Combinations of Hypercapnic, Resistive, and Hot Air Breathing	
SAVOLAINEN, H.: Ammonia in Finnish Poultry Houses: Effects of Litter on Ammonia Levels and Their Reduction by Technical Binding Agents	. 210
SAYED, Yousry: Hexamethylenetetramine: A Review	. 579
SCHEFF, Peter A.: Emission Factors for Trichloroethylene Vapor Degreasers	. 496
SCHENKER, Marc B.: Current Nitrogen Diexide Exposures among Railroad Workers	
SCHOENE, K.: A Method for Correlating Skin Exposure to S-Mustard Vapor with Skin Damage	. 569
SCHOKKIN, Erik: Enumeration of Viable Fungi in Occupational Environments: A Comparison of Samplers and Media	. 235
SCHONFELD-STARR, Fay A.: An Improved Membrane Filter Technique for Evaluation of Asbestos Fibers	. 174
SCHREIBER, G.: A Method for Correlating Skin Exposure to S-Mustard Vapor with Skin Damage	. 569
SCHULER, Barbara: Characterization of the Morphological Properties of Welding Fume Particles by Transmission Electron Microscopy and Digital Image Analysis	
SCOTT, Nelson: Reaction of Gallium Arsenide with Concentrated Acids: Formation of Arsine Dissolution of Crystalline Gallium Arsenide in Aqueous Solutions Containing Complexing Agents	. 455
SELVIN, S.: A Note on the Estimation of the Mean Value from a Lognormal Distribution The Effect of Autocorrelation on the Estimation of Workers' Daily Exposures	. 37
SHIMOZAKI, Steven: Noninvasive Measurement of Respirator Effect at Rest and during Exercise	. 428
SIEBERT, George W.: Hazardous Noise at a Child Care Center	
SKILLERN, C.P.: Solvent Vapor Transfer across an Enthalpy Energy System	
SMID, Tjabe: Enumeration of Viable Fungi in Occupational Environments: A Comparison of Samplers and Media	
SMITH, A.C.: An Approach to Occupational Health Risk Management for a Diversified International Corporation SMITH, J.W.: Comparison of the Effectiveness of Bubble Coalescence and Foamed Surfactant in Controlling the Acid Mist Formed by Electrowinning Cells	
SMITH, Thomas J.: Current Nitrogen Dioxide Exposures among Railroad Workers	340
SPEAR, R.: The Effect of Autocorrelation on the Estimation of Workers' Daily Exposures	
STARK, Gregory P.: Workplace Measurement of Respirator Effects Using Respiratory Inductive Plethysmography	
STEVENS, Gregory A.: "Worst Case" Aerosol Testing Parameters: I. Sodium Chloride and Dioctyl Phthalate Aerosol Filter Efficiency as a Function of Particle Size and Flow Rate "Worst Case" Aerosol Testing Parameters: II. Efficiency Dypendence of Commercial Respirator Filters on Humidity Pretreatment	
"Worst Case" Aerosol Testing Parameters: II. Efficiency Dypendence of Commercial Respirator Filters on Humidity Pretreatment "Worst Case" Aerosol Testing Parameters: III. Initial Penetration of Charged and Neutralized Lead Fume and Silica Dust Aerosols through Clean, Unloaded Respirator Filters	. 265
STOLL, Ilse: Evaluation of Desorption Efficiency Determination Methods for Acetone	. 520
STRANG, Christopher R.: The Limits of Detection for the Monitoring of Semiconductor Manufacturing Gas and Vapor Emissions by Fourier Transform Infrared (FTIR) Spectroscopy	. 78
Fourier Transform Infrared (FTIR) Spectroscopy for Monitoring Airborne Gases and Vapors of Industrial Hygiene Concern A Preliminary Evaluation of the Fourier Transform Infrared (FTIR) Spectrometer as a Quantitative Air Monitor for Semiconductor Manufacturing Process Emissions	354
Manufacturing Process Emissions STRATTON, James W.: Health Symptoms and Occupational Exposure to Flea Control Products among California Pet Handlers	
STRACTOR, James W., ricatur Symptoms and Occupational Exposure to riea Control Products among Camornia Pet Handlers	. 400
Т	
TAKAHASHI, Keiko: Biological Monitoring of Arsenic Exposure of Gallium Arsenide- and Inorganic Arsenic-Exposed Workers by Determination of Inorganic Arsenic and Its Metabolites in Urine and Hair	606

TANAKA, Isamu: Thermal Desorption Efficiencies of Two-Component Organic Solvents from Activated Carbon	24
TAYYARI, Fariborz: Evaluation of a Prototype Microclimate Cooling System	
TERRILL, James B.: Acute Inhalation Toxicity of Furan, 2-Methyl Furan, Furfuryl Alcohol, and Furfural in the Rat	
THIMONS, Edward D.: Reducing Workers' Dust Exposure during Bag Stacking in Enclosed Vehicles	99
THOMAS, Bruce: Noninvasive Measurement of Respirator Effect at Rest and during Exercise THOMAS, Danny L.: Acute Inhalation Toxicity of Furan, 2-Methyl Furan, Furfuryl Alcohol, and Furfural in the Rat	428
THOMPSON, Sheldon: The Regulatory and Mineralogical Definitions of Asbestos and Their Impact on Amphibole Dust Analsyis	
TOPPING, M.D.: Investigation of Organic Aerosols Generated during Sugar Beet Slicing	
TOSSAVAINEN, Antti: Fungi Carried from Farmers' Work into Farm Homes	
TREMML P.G.: Effect of Thermal Conditions on the Acceptability of Respiratory Protective Devices on Humans at Rest	
TROTTIER, B.: The Response of the Pulmonary Surfactant-Associated Alkaline Phosphatase Following Acute Cadmium Chloride Inhalation	331
TURNER. N.: Physical Performance during Combinations of Hypercapnic, Resistive, and Hot Air Breathing	105
TZUNG SHIH, Young: Ozone Removal Capability of a Welding Fume Respirator Containing Activated Charcoal	451
v	
VAHDAT, Nader: Decontamination of Chemical Protective Clothing	152
VAINIOTALO, Sinikka: Measurement of Depolymerization Products in the Polyacetal, Polyamide, and Polymethylmethacrylate Processing Industry	
VAN DE VELDE, P.: Surface Characteristics of Asbestos Fibers Released from Asbestos-Cement Products	655
VAN DUSEN, J.: Comparison of the Effectiveness of Bubble Coalescence and Foamed Surfactant in Controlling the Acid Mist	
Formed by Electrowinning Cells	252
VAN HORN, Wendell E.: Acute Inhalation Toxicity of Furan, 2-Methyl Furan, Furfuryl Alcohol, and Furfural in the Rat VAN WAGENEN, Stan: Dissolution of Crystalline Gallium Arsenide in Aqueous Solutions Containing Complexing Agents	
VERSEN. Richard A.: Evaluating the Exposure Levels Incurred while Laundering Crystalline Silica-Contaminated Work Clothing	
VINCENT, R.: The Response of the Pulmonary Surfactant-Associated Alkaline Phosphatase Following Acute Cadmium Chloride Inhalation	
w	
WACHOB, George D.: Characterization of Carbon Molecular Sieves and Activated Charcoal for Use in Airborne Contaminant Sampling	181
WADDEN, Richard A.: Emission Factors for Trichloroethylene Vapor Degreasers	496
WHITE, Mary Kay: Physiological and Subjective Responses to Working in Disposable Protective Coveralls and Respirators Commonly Used by the Asbestos Abatement Industry	
WILSON, J.R.: Clinical Pulmonary Function Tests as Predictors of Work Performance during Respirator Wear	51
WILSON, Judy R.: Effects of Pressure-Demand Respirator Wear on Physiological and Perceptual Variables during Progressive Exercise to Maximal Levels Alterations in Physiological and Perceptual Variables during Exhaustive Endurance Work while Wearing a Pressure-Demand Respirator	85
WISEMAN, L.G.: Particle Penetration through Sampling Prefilters Illustrates the Analysis Error in NIOSH-Type Procedures for Nickel Carbonyl A-	
WODTKE, G.: A Method for Correlating Skin Exposure to S-Mustard Vapor with Skin Damage	
WONG, Kin F.: An Apparatus and Methodology for Predicting the Dustiness of Materials Dust Inhalation Exposures from the Handling of Small Volumes of Powders	123
WOOD, Gerry O.: A Review of the Wheeler Equation and Comparison of Its Applications to Organic Vanor Respirator Cartridge	
Breakthrough Data	400
A Testing Protocol for Organic Vapor Respirator Canisters and Cartridges WOSKIE, Susan Renee: Current Nitrogen Dioxide Exposures among Railroad Workers	
Y	
YAMAMURA, Yukio: Biological Monitoring of Arsenic Exposure of Gallium Arsenide- and Inorganic Arsenic-Exposed Workers by Determination of Inorganic Arsenic and Its Metabolites in Urine and Hair	606
YAMAUCHI, Hiroshi: Biological Monitoring of Arsenic Exposure of Gallium Arsenide- and Inorganic Arsenic-Exposed Workers by Determination of Inorganic Arsenic and Its Metabolites in Urine and Hair	
z .	
ZAWADSXI, W.: X-Ray Diffraction Analysis of Mine Airborne Dust—An Interference Problem at Hemlo Gold Mines ZINKGRAF, Steven A.: Alterations in Physiological and Perceptual Variables during Exhaustive Endurance Work while Wearing a Pressure-Demand Respirator	
Effects of Pressure-Demand Respirator Wear on Physiological and Perceptual Variables during Progressive Exercise to Maximal Levels	13:
	520

1989 Subject Index

A		A Francisco Company of the Company o
^		bag stacking, controlling dust exposures
acceptable risk, applying the concept		in enclosed cars 99
acetone, permeation of neoprene		benefit vs. cost, tool for ind. hyg. management
acetone desorption, from activated charcoal		benzene, removal from carbon disulfide
acid etching, gallium arsenide		beryllium, monitoring in urine
acid mist, control of	52	beryllium metal, thickness of oxide layer
from electrowinning cells		baryllium oxide, layer on Be metal
activated carbon, desorption of acetone		role in Be toxicology
vapor desorption efficiency	20	Bhopal incident, relief ordered
activated charcoal, air sampling with	81	BIEM, boundary integral equation method
characteristics of		modeling exhaust hood field
desorption of organic compounds	94	biochemical indicators, of pulmonary damage
for ozone removal	51	biological monitoring, for arsenic exposures
solvent desorption from		toxic metals in urine
adsorbents, evaluation for air sampling		bis(2-chloroethyl)sulfide, see S-mustard
for gas chromatography 1 aereation/washing, decontamination of CPC 1		boundary integral equation method, also see BIEM
aerosol characterization, centrifugal spectrometer		breakthrough data, organic vapor respirators
aerosol sampling lines, particle deposition in		breakthrough time, permeation tests for
aerosol tests, of filter efficiency		breathing, of hot air
aging factor, of asbestos cement sheets		hypercapnic
agriculture, exposures to fungi		breath sampling, monitoring solvent vapors
AHERA, Asbestos Hazard Emergency Response Act		building inspection, for AHERA
airborne dust, in Canadian mines		collecting bulk samples
charge distribution of	83	breathing simulator, computer controlled
airborne fungi, in farm environment		slit/cam valve for 240
air contaminants, from building materials	4-6	bubble coalesence, control of acid mists
air contamination, in poultry houses		bulk sample, collection and analysis
airflow, breathing simulator		_
calc. for local exhaust hood		C
air pollutant sampling, with midget impinger		cadmium, monitoring in urine
air quality, in public buildings		cadmium chloride, pulmonary system response
air sampling, with activated charcoal		carbamates, in flea control products
with carbon molecular sieve		carbon black, hazard to workers
air temperatures, acceptable in respirators		retrospective study of
air volume, variable in hoods		carbon dioxide laser, optical hazards
Alcoa sampling guideline, a management tool		carbon disulfide, purification of
alkaline phosphatase, monitoring pulmonary damage		removal of benzene from
Ambersorb®, characteristics of		carbon disulfide/amyl alcohol, as desorption solvent
amines, midget impinger sampling		characteristics of
ammonia, reduction in poultry houses		Carbosieve™, characteristics of
respiratory effects of	46	Carboxen, characteristics of
sampling in air 6		carcinogens, exposure limits for
in soda ash plants		carcinogen limits, national differences
amphibole dust, analysis for		cardiopulmonary effects, of respirators
Andersen N-6 sampler, use for fungi		cellulose-ester filters, improved technique for asbestos
anthropometric factors, in manual lifting		centrifugal spectrometer, aerosol characterization
antigens, in air of sugar beet refinery arsenic, detmn. on filter media	593	ceramics, mullite exposures from
	506	charcoal, solvent desorption from
detmn. in urine	506	charcoal cannisters, for ozone removal
	245	charcoal cloth, sampling solvent vapors
arsenic exposures, biological monitoring for	506	charcoal cloth pads, monitoring dermal exposure
arsenic metabolites, detmn. of		monitoring solvent exposures
arsine, from gallium arsenide		charcoal tubes, desorption of solvents
asbestiform minerals, fiber identification		charge distribution, in airborne dust
asbestos, analyzing bulk samples		charged water spray, radioactive aerosol control
collecting bulk samples	428 660	chemicals, ordering and disposal of
mineralogic definition of	613	systemic control of A-361
regulatory definitions 6		chemical protective clothing, also see CPC
asbestos abatement, respirators used in	313	decontamination of
asbestos cement sheets, composition of fibers 6	655	chemical release hazards, estmn. by IDLH values
fiber exposures from		chromates, perspective of safety of
asbestos exposures, lawsuits regarding		chromium, monitoring in urine
asbestos fibers, change with age		circulatory effects, of carbon black
detmn. by PCM at 1250X improved filter determination of	174	cobalt, monitoring in urine
Asbestos Hazard Emergency Response Act, see AHERA		code of ethics, for industrial hygienists
aspect ratio, in asbestos identification	613	combustion procedures, arsenic on filter media
ASTM, permeation test method		oxygen flask digestion
atomic emission spectrometry, toxic metals in urine		community cleanup, after dioxin accident
autocorrelation effect, in estimating exposures		computer controlled, breathing simulator
automobile industry, assessment of hand tools	639	computer modeling, exhaust inlet velocities
safety and health in	598	computer program modeling hood flow
В		using BIEM 281
_		computer simulation, to evaluate manual lifting tasks
backpack spraying, of herbicides	516	coolants, for ice vests

and the section of th	exhaust hoods, calculation of airflow
cooling system, personal microclimate prototype	
copper, monitoring in urine	constant face velocity
copper smelting, arsenic exposures in	flow field modeling
cost/benefit, tool for ind. hyg. management	use of BIEM modeling
CPC, also see chemical protective clothing	exhaust inlet velocity, modeling characteristics of
	near boundary surfaces
cristobalite, detmn. in synthetic muliite	
crystalline silica, evaluating methods of detmn	exposure estimates, effect of autocorrelation
Cummings Award Lecture, John Pendergrass	exposure limits, for carcinogens
	eve protection, for laser welding
D	
	F
2,4-D, (dichlorophenoxy) acetic acid	•
decontamination, of chemical protective clothing	fabrics, protective clothing
of CPC by aeration and washing	fabric thickness, factor in permeation
degreasers, emission factors of	face velocity, maintaining constant
trichloroethylene	
depolymerization, of polyacetal	measurement of
of polymethylmethacrylate	farming, exposures to fungi
of polyoxymethylene	federal powers, of enforcement
	Federal Register, OSHA update of PELs
dermal exposure, monitoring of	
spraying herbicides	fiber counting, Gap and Straggler test use
to volatile chemicals	interlab. differences A-668
dermal uptake, of S-mustard	filter efficiency, aerosol tests for
desorption, of adsorbed solvents	effect of humidity
organic compounds from activated charcoal	for lead fume
solvents from activated charcoal	for silica dust
description efficiency, acetone from charcoal	
vapors from activated carbon	filter media, detmg. arsenic on
	detmg. metals on
desorption solvent, for solvent mixtures	fiter testing, worst case test
detection limits, of FTIR monitoring	finite difference calculation, of exhaust hood airflow
detector tubes, use in permeation testing	
dichlorophenoxy acetic acid, see 2,4-D	finite-element modeling, velocity contours
diesel exhaust, railway workers' exposure	flame ionization detector, detmg. solvent desorption
	flanged hearing protectors, evaluation of
diffusive sampler, monitoring TDI	flea control products, occupational hazards from
dimethylarsinic acid, arsenic metabolite 606	
dioctylphthalate aerosol, test of filters	flow restrictors, for gas line safety
dioxin, also see TCDD	foamed surfactants, control of acid mists
community cleanup	
dioxin exposures, medical follow-up	
diphenylmethane 4,4'diisocyanate, also see MDI	foundries, use of hexamine 579
disposable coveralls, use with respirators	Fourier transform infrared, see FTIR
dosimeter, for dermal exposures	Fourier Transform Infrared Spectrometer, also see FTIR
for ethylene oxide in hospitals	Tourier Hameron Intraces openionally also see Time
field validation for ethylene oxide	Tree strice, cyaluating incurous of detirit
for TDI	in mullite exposures
dust, also see residential dust	frequency attenuation, of earmuffs
charge distribution on	
residential	
dust control, for bag stacking	
dust emission factors, vs. exposure prediction	monitoring gases and vapors
dust exposures, during bag stacking	fume hoods, "in use" testing of
factors in	quantitative testing of
model for predicting	4
from small volumes of powders	tungar spores, sampang tor
dust exposure potential, four parameter model for	
dustiness, index of materials	
prediction of	
dustiness index, vs. materials characteristics	furfural, inhalation toxicity of
Dustron™ System, radioactive aerosol control	
,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,	
E	G
earmuff attenuation, effect of design	
effect of physical activity	
electrostatic charged filters, efficiency in respirators	mechanics of solution 455
electrostatic precipitation, charged water spray	reaction with HCl
electrowinning cells, control of acid mist from	
endotoxins, problems in assessing	
enforcement powers, state and federal	
enthalpy energy system, see heat wheel	Gap and Straggler test, proper use of
EPA, bans asbestos	use in fiber counting A-668
effect on industrial hygiene	
superfund amendment	
epidemiologic study, of welding fume exposures	
epidemiology, of hexamethylene tetramine	
ergonomics, of breathing apparatus design	
of hand tools	use in ice vest
ergonomic stress, of manual lifting	gilsonite milling, exposures in
Esteron-99®, see 2,4-D ispoctyl ester	grisoritte mining, exposures m
etching, gallium arsenide	gilsonite mining, exposures in
ethylene oxide, exposures in hospitals	giass their hearing protectors, evaluation of
field validation of decimator	
field validation of dosimeter	parmeation by coluente 623
ethylene oxide dosimeter, AMSCO EO-Self-Scan	
DuPont Pro-Tek	
Qazi-Ketchum (QK) 3 3M-3500 3	gold ore dust, interference with x-ray diffraction analysis
3M-3500 30	
exercise levels, with pressure-demand respirator	
The state of the s	- Colore abbreamment measure record common contract contract see as

graphic method, detmg. nuclide uptake		the state of the s	
		legislative review, role of ind. hyg.	
gravitational settling, in aerosol sampling lines		liability control, role of ind. hyg.	
grip force, in hand tool acceptance		lifting, evaluation of NIOSH guidelines	
guidelines, NIOSH manual lifting	157	limiting orifices, for gas line safety	
H		liquid penetration, effects of pressure	391
		of protective clothing	391
hand tools, in automobile industry		litter, use in poultry houses	210
factors in acceptance of		local exhaust, modeling characteristics of	204
subjective assessment of		local exhaust hoods, calculation of airflow	526
hazard control, Intn'i. Labor Office book		lognormal distribution, estimating mean value from	627
hazardous waste workers, OSHA regulations for		lung fluid, gallium arsenide in	
protection of		,	
health and safety, in automobile industry			
health hazards, media reporting of	505	M	
hearing protectors, evaluation of insert-type	147	magnesium loss, in weathered asbestes	655
hearing protection, using earmuffs	480	Major Hazard Control, Intn'l. Labor Office book	151
heat storage capacity, of gelled coolants	325	malathion, in flea control products	466
heat stress, control by personal cooling system	229	malignant effects, of carbon black	510
microclimate personal cooling system		manual lifting, alternative to NIOSH work practices guide	
heat wheel, vapor transfer across	320	analysis of tasks	165
herbicides, backpack spraying of	516	evaluation of NIOSH guidelines factors considered 157,	157
hexamethylene tetramine, also see hexamine		factors considered	165
hexamethylene tetramine, epidemiology of	579	horizontal distance limits	165
thermal decomposition		maximum voluntary ventilation, effect using respirator	51
toxicology review		MDI, spray application hazards	303
hexamine, also see hexamethylene tetramine		mean values, dependence on sample size	
regulatory concerns		from lognormal distribution	
hoods, variable air volume		medical monitoring, after dioxin exposures	
hood testing, "in use" protocol		membrane filter technique, improved for asbestos	
tracer release system		methylarsinic acid, arsenic metabolite	
horizontal distance limits, for manual lifting		microclimate cooling system, personal	
hot air breathing, effect on physical performance		reducing heat stress	
humidity, effect on filter efficiency		microorganisms, in air of sugar beet refinery	
humidity limits, acceptable in respirators		multi-jet impactor sampling	
		midgat impinger, sampling air pollutants	
hydrochloric acid, reaction with gallium arsenide		sampling amines in air	
hypercapnic breathing, effect on physical performance	105	theory of sampling	
1		milling, gilsonite	
les esplied week annumentum denim		mine dust, X-ray diffraction analysis	
ice-cooled vest, new system design		mines, charge distribution on dust	
ice vests, gelled coolants in		radioactive aerosol control	
iconel, fume from welding		mining, gilsonite	
IDLH, immediately dangerous to life and health		modeling, aerosol centrifugal spectrometer	
IDLH values, compared to Tox. guidelines		modeling characteristics, lucal exhaust velocity	
use to estimate hazards		modeling characteristics, local exhaust velocity	
immunological responses, of sugar beet slicers		to remove benzene	
impactor sampling, for fungi in air	235		
impactors, multiple-jet correction	561	monitoring, breath for solvent vapors	
industrial hygiene, code of ethics	1-802	gases and vapors by FTIR	
in government and industry		herbicide spraying	
professional practice of		pulmonary damage	
industrial hygiene management, areas of impact		semiconductor process emissions	0, 7
benefits of		for toluenediisocyanate	
cost/benefit as tool		monitoring dermal exposure, to volatile chemicals	210
in imperfect world		monitoring workplace, effect of autocorrelation	3
industry's role, in industrial hygiene		morphologic properties, of welding fume	
insert hearing protectors, effect of jaw movement		mullite, detmng, cristobalite in	
evaluation of		occupational exposures	
interference, with analysis by X-ray diffraction		multiple-jet impactors, positive hole correction	
International Labor Office, book on hazards control		muscle strength, in manual lifting	
"in use" testing, of fume hoods		mustard gas, also see S-mustard	
isocyanate exposures, from polyurethane foam		mastara gas, also see o mastaro	
from spray applications			
2,4-D isooctyl ester, permeation of neoprene		N	
permeation of nitrile		National Bureau of Standards, renamed see NIST	A-1
permeation of Tyvek®	438	neoprene gioves, permeation by acetone	55
J		permeation by solvents	62
jaw movement, effect on insert hearing protectors	147	news media, reporting of hazards	
		nickel carbonyl, error in sampling	
jet impactors, positive hole correction	201	NIOSH, respirator hazards bull.	
L		NIOSH guidelines, evaluation for manual lifting	
	37F	NIOSH work practices guide, for manual lifting	
laboratory fume hoods, "in use" testing of		NIST, National Institute of Standards and Technology	
laboratory hoods, constant face velocity		nitrogen dioxide, railway workers' exposure	
variable air volume			
Laplace equation, calc. of hood airflow		noise abatement, in planing mills	61
laser welding, optical radiation hazards			
safety training		noise attenuation, factor with earmuffs	
latex aerosol test, of respirator filters		noise hazards, at child care center	
laundering, silica contaminated clothing		nuclides, detring, retention and elimination	
lawsuits, Bhopal incident		niclide uptake, detmn. by graphical method	
"toxic tort"	A-422	of workers	. 3

0	powders, dust exposures from
occupational exposures, flea control products	dustiness index of
optical radiation hazards, of laser welding	prefilters, particle penetration of
with carbon dioxide laser	premarketing notification, role of ind. hyg
organic aerosols, from sugar beet slicing	pressure-demand respirator, effects with exercise
organic solvents, decontaminating CPC	perceptional variables
organic vapor cartridges, evaluating service life	physiologic effects with
test with carbon tetrachloride	physiologic variables with
testing protocol for	product enhancement, role of ind. hyg
organic vapor respirators, breakthrough equations	professional practice, of industrial hygiene
organic vapors, in public buildings	program reviews, in risk management
organophosphates, in flea control products	protective clothing, penetration by liquids
orifices, for gas line safety	permeation testing of
OSHA, effect on industrial hygiene	protective coveralls, use with respirators
OSHA program, accomplishments of	public buildings, air quality in A-6
history and problems	public safety, balance with technology
OSHA publication, updating PELs	pulmonary capacity, reduction by use of respirator
OSHA standards, text of 1989 publication	pulmonary damage, biochemical indicators
oversight Committee, 1987–1988 report	pulmonary effects, of wood dust 574
oxide layer, on beryllium metal	Purasieve®, characteristics of
oxygen flask digestion, for arsenic on filter media	0
for metals on filter media 593	•
ozone, control for welding	quartz determination, interference with X-ray diffraction
removal by respirator	R
_	**
P	radiation hazards, from carbon dioxide laser
PA-6, also see polyamide-6	radioactive dust, control in mines
depolymerization in processing	radioactivity exposures, nuclide uptake by workers
paint solvent vapors, detmn. by FTIR	railway workers, nitrogen dioxide exposure
particle deposition, in aerosol sampling lines	real-time identification, of gases and vapors
particle penetration, of prefilters A-665	regulatory definitions, of asbestiform minerals
particulates, in air of public buildings	repellent fabrics, penetration by liquids
passive dosimeters, desorption of solvents A-431	residential dust, adsorption characteristics
validation for ethylene oxide	desorption characteristics
passive monitor, for TDI	surface characteristics
PCB, also see polychlorinated biphenyls permeation of PVC gloves	resistive breathing, effect on physical performance
peat litter, use in poultry houses	respirator cannisters, organic vapor testing
PELs updated, OSHA publication	respirator cartridges, breakthrough data
text from Federal Register	organic vapor testing
percutaneous absorption, of vapors	Wheeler equation application
periodic surveillance, sampling guideline for	respirator design, recommended changes
permeability, increase by pressure	respirator effectiveness, in asbestos abatement
of protective clothing	respirator effects, measurement of
permeation, effect of glove thickness	plethysmographic study of
by solvent mixtures 438	on workers in workplace 372
permeation cells, comparative tests of	respirator filters, collection efficiency
permeation testing, ASTM method	latex aerosol test of
use of detector tubes	respirator hazards bulletin, NIOSH
permeation tests, effect of carrier gas	respirators, also see pressure-demand respirators acceptable environmental factors
procedures for	monitoring effects of
pesticides, exposures in flea control	perceptual variable in use of
pet handlers, occupational exposures of	physiologic variables with
phospholipids, monitoring pulmonary damage	predicting work performance using
physical performance, with hypercapnic breathing	reduction of pulmonary capacity
with resistive breathing	removal of ozone
physiologic effects, of pressure-demand respirator	stress from pressure-demand
physiological stress, respirator use in asbestos abatement	worn with disposable protective coveralls
planer mills, noise abatement in	respiratory effects, of ammonia
plethysmograph, respiratory inductive	of carbon black
plethysmography, respiratory inductive	of wood dust 574
PMMA, also see polymethylmethacrylate	respiratory inductive plethysmograph, see RIP
depolymerization in processing	respiratory plethysmograph, inductive
polyacetal, also see POM	restrictors, for gas line safety
polyamide-6, also see PA6	RIP, respiratory inductive plethysmograph
polychlorinated biphenyls, also see PCBs	used in workplace 372
dermal exposures to	risk assessment, exposures to PCBs
polymethylmethacrylate, also see PMMA	risk evaluation, using IDLH values
polyoxymethylene, also see POM	risk management, available options for
polyurethane foam, isocyanate exposures from	risk management program, of diversified intn'l. corp
polyvinylchloride gloves, permeation by PCBs	risk vs. benefit, Washington Letter
POM, also see polyacetal	rubber industry, use of hexamine
also see polyoxymethylene	rule making, OSHA's history of
depolymerization in processing	S
posture, ractor in tool use	safety, balance with technology
effectiveness of types of litter	of gas lines
in Finland	personal perspective

safety and health, in automobile industry A-598	toluene, permeation of neoprene
safety hazards, media reporting of	toluenediisocyanate, also see TDI
safety training, for laser welding	toxic agents, in welding fume 59
sample collection, for bulk samples	toxicity, of furan and derivatives
sample size, in detmg, mean value	toxic metals, monitoring in urine
sampling, breath for solvent vapors	toxicology, of hexamethylene tetramine
sampling apparatus, high resolution air analysis	"toxic tort," lawsuits
sampling efficiency, of midget impinger	tracer release, for testing hoods
sampling guideline, ind. hyg. management tool	transmission electron microscopy, see TEM
sawmills, dust exposures	1,1,1-trichloroethane, charcoal cloth sampling
health hazards in	1,1,1-trichloroethane, permeation of neoprene
sawmill noise, economical reduction	trichloroethylene, also see TCE
semiconductor manufacturing, monitoring emissions	turbulent diffusion, in aerosol sampling lines
silica, evaluating methods of detmn	Tyvek® gloves, permeation by 2,4-D isooctyl ester
silica dust, exposures in bag stacking	U
hazards in laundering work clothes	uintaite, see gilsonite
S-mustard, also see bis(2-chloroethyl)sulfide 569 exposure vs. skin damage 569	United Auto. Workers, health and safety action
test of skin protection	uranium mines, charge distribution on dust
vapor exposure hazards 569	radioactive aerosol control
soda ash plants, ammonia exposures	urine, monitoring toxic metals in
sodium chloride aerosol, test of filters	V
solubility, of gallium arsenide	VAC hoods, variable air volume
solvent desorption, from activated charcoal	vapor absorption, by residential dust
solvent vapors, dethill by Fire spectro	vapor degreasers, emission factors for
solvent vapors, monitoring in breath	vapor monitoring, by FTIR spectroscopy
monitoring dermal exposure	vapor spiking, of activated carbon
sampling with charcoal cloth	vapor transfer, across neat wheel
sampling in mixed-expired air	velocity contours, bounded exhaust inlets
solution differential, of Be vs. BeO	freestanding exhaust inlets
sound insulation, for sawmill operations	velocity gradients, near boundary surfaces
spectrometer, centrifugal for aerosols	of exhaust inlets
spectrometer, Fourier Transform Infrared	ventilation, of bag conveyor systems
spores, in farm environment	of enclosed car loading 99
spray applications, isocyanate exposures from 303 polyurethane foam 303	ventilation control, for sugar beet slicing
spraying herbicides, dermal exposures from	vermiculite litter, in poultry houses
stainless steel welding, nickel carbonyl detmn	volatile chemicals, monitoring dermal exposure
standards, risk based A-438	volatile organics, desorption from activated charcoal
state powers, of enforcement	W
statistics, of mean values	Washington Letter, risk vs. benefit
sterilizers, monitoring for ethylene oxide	weathered asbestos, composition changes
stress, from breathing conditions	welding, with carbon dioxide laser
sugar beet slicing, airborne microorganisms from	protection from ozone
antigens from 44	welding fume, from iconel
organic aerosols from	review of hazards
ventilation control for	toxic agents in
superfund amendments, impact of A-510 superphosphate litter, in poultry houses	welding stainless steel, detmn. of nickel carbonyl
surface air system, sampling for fungi	Wheeler equation, applied to respirator cartridges
surface characteristics, of residential dust	wicking fabrics, penetration by liquids
	respiratory effects of
T	work clothing, laundering after silica exposures
TCDD, 2,3,7,8-tetrachlorodibenzo-para-dioxin	worker communication, role of ind. hyg
TCE, trichloroethylene	work performance, estimation with use of respirator
TDI, also see toluenediisocyanate determination of	workplace monitoring, effect of autocorrelation
personal monitor for	X
TDI monitor, evaluation of 8	X-ray diffraction, analysis of ceramics
technology, balance with public safety	detmn. of cristobalite
TEC vapor degreasers, emission factors for	X-ray diffraction analysis, gold ore interference
TEM, transmission electron microscopy detmg, morphology of fume	of mine dust
testing protocol, organic vapor cartridges	m-xylene, charcoal cloth sampling
tetrachlorodibenzo-para-dioxin, see TCDD	Y
thermal conditions, acceptable in respirators	Yant Lecture, P.L. Bidstrup 505
thermal decomposition, of hexamethylene tetramine	•
thermal decontamination, of chem. protective clothing	2
thermal desorption, vapors from activated charcoal	zinc, monitoring in urine